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National Highway Traffic Safety Administration

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On-scene Investigation / Vehicle to Vehicle Dynamic Science, Inc. / Case Number: DS9520 1985 GMC school bus Arizona , 1995

**Technical Report Documentation Page** 

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16. Abstract				
This three-vehicle intersection collisions occurred in . 1995 within the intersection of two rural roadways, located in southwestern Arizona.				
Vehicle 1, a 1985 GMC 72 passenger school bus, was traveling eastbound approaching a four leg intersection at an estimated speed of 8 km/h (5 mph in a left turn lane intending to turn north. It was being driven by a 51 year old female. It is unknown if she was restrained by the available 2-point manulap restraint. Vehicle 2, a 1987 Kenworth C-500 dump truck driven by a an unrestrained 23 year old male, fully loaded with gravel and rocks, was traveling southbound at an estimated speed of 50 km/h (31 mph). Vehicle 3, a 1984 Ford F-60 truck pulling a three-axle flatbed trailer was being drive eastbound by an unrestrained 44 year old male at an estimated speed of 48 km/h (30 mph).				
Vehicle 2 failed to stop at a stop sign and entered the intersection. The driver of this vehicle attempted to avoid the collision by braking and steering to the right. The driver of Vehicle 1 attempted to avoid the impending collision by accelerating straight ahead. The front of Vehicle 2 struck the left rear of Vehicle 1. The initial impact caused Vehicle 1 to rotate counterclockwise, and Vehicle 2 to rotate clockwise resulting in contact between the left upper portion of the bus and the dump box of Vehicle 2. This impact ripped away a portion of the side and roof of the school bus, allowing large rocks and gravel to intrude into the interior of the bus. After impact, both vehicles traveled southwest to their final rest positions. The trailer of Vehicle 3 sustained damage to the left side from the right rear portion of the bus as it was pushed backward. Both Vehicles 1 and 2 were towed from the scene due to damage. Vehicle 3 was driven from the scene under its own power. The trailer of Vehicle 3 was towed from the scene due to damage.				
As a result of the of the collision with Vehicle 2, one school bus occupant received fatal injuries, seven students were seriously injured, seven more had AIS-1 level wounds, the injury status for ten occupants is unknown, and the driver and other occupants were not hurt.				
It is believed that the fatal and most serious injuries were sustained by those students who were seated in the left rear portion of the school bus. The fatally injured case occupant and the seat in which he was riding in were ejected from the school bus.				
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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

# Dynamic Science, Inc. Accident Investigation Case Number: DS9520

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#### **TECHNICAL SUMMARY:**

This three-vehicle intersection collisions occurred in two rural roadways, located in

, 1995 within the intersection of

Vehicle 1, a 1985 GMC 72 passenger school bus, was traveling eastbound approaching a four leg intersection at an estimated speed of 8 km/h (5 mph) in a left turn lane intending to turn north. It was being driven by a 51 year old female. It is unknown if she was restrained by the available 2-point manual lap restraint. Vehicle 2, a 1987 Kenworth C-500 dump truck driven by a an unrestrained 23 year old male, fully loaded with gravel and rocks, was traveling southbound at an estimated speed of 50 km/h (31 mph). Vehicle 3, a 1984 Ford F-60 truck pulling a flatbed trailer was being driven eastbound by an unrestrained 44 year old male at an estimated speed of 48 km/h (30 mph).

Vehicle 2 failed to stop at a stop sign and entered the intersection. The driver of this vehicle attempted to avoid the collision by braking and steering to the right. The driver of Vehicle 1 attempted to avoid the impending collision by accelerating straight ahead. The front of Vehicle 2 struck the left rear of Vehicle 1.

The initial impact caused Vehicle 1 to rotate counterclockwise, and Vehicle 2 to rotate clockwise resulting in contact between the left upper portion of the bus and the dump box of the Vehicle 2. This impact ripped away a portion of the side and roof of the school bus, allowing large rocks and gravel to intrude into the interior of the bus. After impact, both vehicles traveled southwest to their final rest positions. The trailer of Vehicle 3 sustained damage to the left side from the right rear portion of the bus as it was pushed backward. Both Vehicles 1 and 2 were towed from the scene due to damage. Vehicle 3 was driven from the scene under its own power. The trailer of Vehicle 3 was towed from the scene due to damage.

As a result of the of the collision with Vehicle 2, one school bus occupant received fatal injuries, seven students were seriously injured, seven more had AIS-1 level wounds, the injury status for ten occupants is unknown, and the driver and other occupants were not hurt.

Based on our inspection of the school bus, it is believed that the fatal and most serious injuries were sustained by those students who were seated in the left rear portion of the school bus. The fatally injured case occupant and the seat in which he was riding were ejected from the school bus. He received an avulsion of the scalp on the right side. There was also hemorrhage in the right temporal area and in the front parietal scalp. There was brain edema and mild subaracnoid hemorrhage on the right parietal occipital area and on the right cerebellar hemisphere. The victim also sustained fractures to the right clavicle, left anterior rib and pelvis. He had extensive hemorrhage to his chest area internally, including both lungs. He also sustained avulsion of the muscle along the vertebrae and numerous contusions, lacerations and abrasions. The sources of the injuries were unknown because of the numerous events that occurred in the collision from the major intrusion into the bus and ejection of the case occupant to flying rocks and glass.

ACCIDENT DATA:	
Location:	
Area/Type:	Rural
Date/Time:	Summer/Morning
Accident Type:	School Bus/Truck/Truck
INJURY SEVERITY:	
Vehicle 1	Driver, no injury
	Occupant 2 was apparently not injured
	Occupants 3, 5, 6, 13, 16, 17, 19, 24, 25, 28 had unknown injuries
	Occupants 4, 7, 8, 10, 11, 14, 15, and 21 sustained contusions, lacerations and abrasions (AIS-1) injuries
	Occupants 9, 12, 18, 20, 22, 23, and 26 had serious injuries
	Occupant 27 (the case occupant), AIS-5 (fatal)
Vehicle 2	Driver, no injury
Vehicle 3	Driver, no injury
AMBIENCE:	
Viewing Conditions:	No viewing restrictions
Cloud Cover:	None
Precipitation:	None
Temperature:	41° c (105° F)

Dry

Road Surface:

### **ROADWAY:**

	Vehicle 1	Vehicle 2	Vehicle 3
Туре	Rural Arterial	Rural Arterial	Rural Arterial
Traffic Density	Moderate	Moderate	Moderate
Width	11.0 m (36.2 ft)	8.8 m (28.9 ft)	11.0 (36.2 ft)
Median	None	None	None
Edge	South edge 2.3 m (7.7 ft) Paved shoulder	Gravel shoulder	South edge 2.3 m (7.7 ft) paved shoulder
Surface	Asphalt	Asphalt	Asphalt
Coefficient of friction	.70	.70	.70
Horizontal alignment	Level	Level	Level
Vertical alignment	Level	Level	Level

# TRAFFIC CONTROL:

	Vehicle 1	Vehicle 2	Vehicle 3
Signals	None	Stop sign	None
Speed limit	80 km/h (50 mph)	64 km/h (40 mph)	80 km/h (50 mph)

Markings:

All legs of the intersection have standard lane markings

### **VEHICLES:**

	Vehicle 1	Vehicle 2	Vehicle 3
Description	1985 GMC 6000	1987 Kenworth C-500	1984 Ford F-60 & flatbed trailer
Odometer	85,190 km (52,936 mi)	291,483 km (181,124 mi)	Unknown
Engine	V8/gas	Cummins NT	Unknown
Vehicle	72 passenger Bluebird School bus body mounted on a chassis	579.0 cm (19.0 ft) dump body on 6-4 chassis	Unknown
Tire Condition	2 front (new) 4 rear (good)	left front (poor) right front (good) 10 rear (good)	2 front (good) 4 rear (good)
Manual Restraints	2 -point manual lap restraint, driver only	2-point manual lap restraint, driver only	Unknown
Automatic Restraints	None	None	None
Reported Defects	None	Brakes out of adjustement	None
Cargo	None	Loaded with rocks	Loaded with Service Equipment
Windshield damage	None	None	None
Fleet Company	County school	Irrigation district	packing company
Tow Status	Towed due to collision damage	Towed due to collision damage	driven away (trailer towed)

# **VEHICLE DAMAGE:**

Vehicle 1	Vehicle 2	Vehicle 3
Major damage was sustained in two impacts. There was major damage to the left side from impact # 1. Maximum crush was measured at the area of 7 <sup>th</sup> row left side at 36.0 cm (14.2 in). Left side damage from 1 through 12 averaged 9.7 cm (3.8 in) of crush. The top was torn away from the 6 <sup>th</sup> row back and impaled on Vehicle #2's rock guard on the dump bed allowing the cargo of rocks and gravel to fall into Vehicle 1's passenger compartment. Numerous seats were leaning with large rocks on them. The 12 <sup>th</sup> row left side seat (case occupant) was ripped from its mooring and ejected. The right rear portion had approximately 124.0 cm (57.9 in) of crush at the right rear bumper corner from the 2 <sup>nd</sup> impact.	Moderate damage to left front bumper with approximately 50.0 cm (19.7 in) of crush at left front bumper corner. The left front axle was displaced rearward 30.0 cm (11.8 in) The left front tire was deflated and a portion of fiber glass fender was torn away. The dump bed was displaced but this may have occurred when Vehicle 2 rolled onto its left side after initial impact.	No damage was done to the power unit. The trailer was heavily damaged on the left side. The tandem axle was displaced rearward. The mounting neck was deformed by impact.

	Vehicle 1	Vehicle 2	Vehicle 3
Impact speed (estimated)	8 km/h (5 mph)	50 km/h (31 mph)	48 km/h (30 mph)

Total Delta V:

Longitudinal Delta V: Delta V not computed

Lateral Delta V: Vehicles and impacts are out of scope

Energy Dissipation:

### **COLLISION SEQUENCE:**

#### Pre- Crash:

This three-vehicle crash occurred during the morning of a fall weekday on a three-lane, undivided, rural, asphalt, roadway at a four-way intersection in The weather was clear, the roadway was dry and free of structural defects. Traffic was moderate and there were no viewing restrictions. The statutory speed limit is 80 km/h (50 mph).

The east/west roadway is approximately 11.0 meters (36.2 ft) in width. There is a 2.6 meter (8.5 ft) paved shoulder on the north edge and a 2.3 meter (7.7 ft) paved shoulder on the south edge. There is a turn lane 3.6 meter (11.7 ft) wide on the eastbound side for traffic intending to turn west. The north/south roadway is approximately 8.8 meters in width (28.9 ft). The southbound traffic lane is 4.8 meters (15.8 ft) wide. There is a stop sign for southbound traffic intending to turn west. Due to recent resurfacing, the solid white turn lane line was not in place at the time of this collision. Both collision involved roadways are straight and level with an estimated coefficient of friction of .70.

The Vehicle 1 (case vehicle), a 72 passenger, conventional school bus, constructed on a 1985 GMC 6000 chassis, was being driven east in the eastbound left turn lane, by the 51 year old female driver, at estimated speed of 8 km/h (5 mph). It is not known if the driver was wearing the 2-point manual lap restraint. Vehicle 1 was not equipped with passenger safety restraints; therefore occupants 2 through 28 were not restrained. Occupant 27, the case occupant, was seated in seat 1, row 12.

The driver of Vehicle 1 attempted to avoid the collision by accelerating straight ahead.

Vehicle 2, a 1987 Kenworth C-500 dump truck was traveling south in the southbound traffic lane, driven by a 23 year old male, at an estimated speed of 50 km/h (31 mph). The driver was not using the available 2-point manual restraint system.

The driver of Vehicle 2 failed to stop at the stop sign, and subsequently attempted to avoid the collision by braking and steering to the right.

Vehicle 3, a 1984 Ford F-60, pulling a flat-bed trailer, was traveling east in the eastbound traffic lane, driven by a 54 year old driver, at an estimated speed of 48 km/h (30 mph). There was no restraint system available.

There was no attempted evasive action taken by the driver of Vehicle 3.

#### Crash:

Vehicle 1 was initially struck by Vehicle 2 on the left side, 480.0 cm (189 in) rearward of the bus' front bumper. The front top of the dump bed (rock guard) penetrated the roof of the bus. The dump truck's left front bumper and left front side also contracted the left rear side of Vehicle 1 approximately 780.0 cm (307 in) rearward of the bus' front bumper. As the left side of the bus was crushed inward, part of the top rear half of the bus was torn away in an "S" pattern and was impaled on the rock guard. The lower rear and back portion of the bus was also torn away from the chassis at impact. During the collision numerous rocks spilled out of the dump bed and into the bus through the opening in the roof and broken window openings.

Vehicle 2 sustained damaged to the left front bumper and left side from initial impact.

### Post crash:

After impact, Vehicle 1 rotated counterclockwise, traveling in a southwest direction and struck Vehicle 3. The right rear of Vehicle 1 struck the left front side of the flatbed trailer that was being towed by Vehicle 3. Vehicle 1 then continued in a southwest direction to a final rest position approximately thirty feet southwest of the initial impact with Vehicle 2. Vehicle 2 rotated clockwise after impact in a southwest direction and rolled over 1/4 turn on its left side to a final rest position off the road, having traveled approximately 24 m (80 ft) from the initial impact with Vehicle 1. Vehicle 3 was driven to a parked position after impact approximately 122 m (400 ft) east of the collision scene.

### Occupant Kinematics:

Occupant 27 (the case occupant) was seated in an apparent normal upright position on a floor mounted, bench seat row 12, seat 1. This would be rearmost outboard position of the left side of the bus. The case occupant was 168.0 cm (66 in) in height and weighed 54 kg (120 lbs). His hand and foot positions could not be determined. Passenger safety restraints were not available and the case occupant was not restrained.

The occupant's seat position was in the extreme left rear seating position, well back of Vehicle 1's rear axle. While unconfirmed by occupant contact points, it is probable that the occupant was struck by rocks that tumbled through the opening in the roof. The force of the impact ripped the bench seat he was seated on from the floor. Both he and the seat were ejected from the rear of the bus due to the rear of the bus being torn away from the chassis.

The force of the impact, spilled cargo from Vehicle 2 and the ejection resulted in avulsion of the scalp from the skull on the right side. There was also hemorrhage in the right temporal area and in the front parietal scalp. There was brain edema and mild subaracnoid hemorrhage on the right parietal occipital area and the right cerebellar hemisphere. The victim also sustained fractures to the right clavicle, left anterior rib and pelvis. He had extensive hemorrhage to his chest area internally, including both lungs. He also sustained avulsion of the muscle along the vertebrae column and numerous contusions, lacerations and abrasions.

### Scene Clearance:

The driver of Vehicle 1 was not injured. Occupant 2 was apparently not injured. Occupants 4, 7, 8, 10, 11, 15 and 21 sustained contusions, lacerations and abrasions (AIS-1) injuries. Occupants 3, 5, 6, 13, 16, 17, 19, 25 and 28 sustained unknown injuries. Occupant 20, 22, 23, 26, 18, 12 and 9 received serious (AIS-2-to3) type injuries. Occupant 27 ( the case occupant) sustained major head and internal injuries; maximum AIS=AIS 5. The case occupant was pronounced deceased at the scene. He was transported to a local hospital morgue for autopsy. All of the other occupants were transported to a local trauma center where even the occupants that were not injured were treated for shock, trauma and emotional disturbance.

### Safety Standards:

The police indicated that the inspection of Vehicle 2 (1987 Kenworth C-500 dump truck) at the scene by investigating officer revealed that at the time of the collision, the truck only had 25% braking capabilities and that 75% of the brakes were out of adjustment.

# **DRIVER AND OTHER OCCUPANTS:**

# VEHICLE 1

	DRIVER	OCCUPANT 2
Age/Sex	51 year old/Female	14 year old/Male
Seated Position	Left Front	Row 1, Seat 6
Seat type	Box Mounted Bucket	Floor Mounted Bench
Height	Unknown	Unknown
Weight	Unknown	Unknown
Occupant	School Bus Driver	Student
Pre-existing Medical Condition	None reported	None reported
Alcohol Involvement	None	None
Drug Involvement	None	None
Driving Experience	Unknown	N/A
Body Posture	Upright seated position	Unknown
Hand position	Unknown	Unknown
Foot Position	Unknown	Unknown
Restraint Usage	Unknown	Unknown
Additional Occupants	27	26

	OCCUPANT 3	OCCUPANT 4
Age/Sex	Unknown/female	14 year old/Male
Seated Position	Row 2, Seat 1	Row 3, Seat 1
Seat type	Floor mounted Bench	Floor mounted bench
Height	Unknown	Unknown
Weight	Unknown	67 kg (147 lbs)
Occupation	Student	Student
Pre existing Medical Condition	None Known	None Known
Alcohol Involvement	None	None
Drug Involvement	None	None
Body Posture	Upright Seated Position	Upright Seated position
Hand Position	Unknown	Unknown
Foot Position	Unknown	Unknown
Restraint Usage	None Available	None Available
Additional Occupants	25	24

	OCCUPANT 5	OCCUPANT 6
Age/Sex	14 Year old/Female	15 year old/Female
Seated Position	Row 3 Seat 2	Row 3, Seat 5
Seat type	Floor mounted Bench	Floor mounted bench
Height	Unknown	Unknown
Weight	Unknown	Unknown
Occupation	Student	Student
Pre existing Medical Condition	None Known	None Known
Alcohol Involvement	None	None
Drug Involvement	None	None
Body Posture	Upright Seated Position	Upright Seated position
Hand Position	Unknown	Unknown
Foot Position	Unknown	Unknown
Restraint Usage	None Available	None Available
Additional Occupants	23	22

	OCCUPANT 7	OCCUPANT 8
Age/Sex	14 Year old/Female	14 Year old/Male
Seated Position	Row 4 Seat 1	Row 4 Seat 3
Seat type	Floor mounted Bench	Floor mounted bench
Height	Unknown	Unknown
Weight	Unknown	67 kg (147 lbs)
Occupation	Student	Student
Pre existing Medical Condition	None Known	Stitches on Leg
Alcohol Involvement	None	None
Drug Involvement	None	None
Body Posture	Upright Seated Position	Upright Seated position
Hand Position	Unknown	Unknown
Foot Position	Unknown	Unknown
Restraint Usage	None Available	None Available
Additional Occupants	21	20

OCCUPANT 9	OCCUPANT 10
15 Year Old/Female	17 Year Old/Female
Row 4, Seat 4	Row 4 Seat 6
Floor mounted Bench	Floor mounted bench
Unknown	Unknown
Unknown	67 kg (147 lbs)
Student	Student
None Known	None Known
None	None
None	None
Upright Seated Position	Upright Seated position
Unknown	Unknown
Unknown	Unknown
None Available	None Available
19	18
	15 Year Old/Female Row 4, Seat 4 Floor mounted Bench Unknown Unknown Student None Known None Upright Seated Position Unknown Unknown Unknown None Available

	OCCUPANT 11	OCCUPANT 12
Age/Sex	14 Year Old/Female	14 Year Old/Female
Seated Position	Row 5, Seat 1	Row 5, Seat 3
Seat type	Floor mounted Bench	Floor mounted bench
Height	Unknown	165 cm (65.0 in)
Weight	Unknown	57 kg (126 lbs)
Occupation	Student	Student
Pre existing Medical Condition	None Known	None Known
Alcohol Involvement	None	None
Drug Involvement	None	None
Body Posture	Upright Seated Position	Upright Seated position
Hand Position	Unknown	Unknown
Foot Position	Unknown	Unknown
Restraint Usage	None Available	None Available
Additional Occupants	17	16

	OCCUPANT 13	OCCUPANT 14	
Age/Sex	14 Year Old/Female	14 Year Old/Female	
Seated Position	Row 5, Seat 4	Row 6 Seat 1	
Seat type	Floor mounted Bench	Floor mounted bench	
Height	Unknown	Unknown	
Weight	Unknown	67 kg (147 lbs)	
Occupation	Student	Student	
Pre existing Medical Condition	None Known	None Known	
Alcohol Involvement	None	None	
Drug Involvement	None	None	
Body Posture	Upright Seated Position	Upright Seated position	
Hand Position	Unknown	Unknown	
Foot Position	Unknown	Unknown	
Restraint Usage	None Available	None Available	
Additional Occupants	15	14	

	OCCUPANT 15	OCCUPANT 16
Age/Sex	14 Year Old/Female	Unknown/Female
Seated Position	Row 6, Seat 5	Row 6 Seat 6
Seat type	Floor mounted Bench	Floor mounted bench
Height	Unknown	Unknown
Weight	Unknown	67 kg (147 lbs)
Occupation	Student	Student
Pre existing Medical Condition	None Known	None Known
Alcohol Involvement	None	None
Drug Involvement	None	None
Body Posture	Upright Seated Position	Upright Seated position
Hand Position	Unknown	Unknown
Foot Position	Unknown	Unknown
Restraint Usage	None Available	None Available
Additional Occupants	13	12

OCCUPANT 17 Unknown Row 4, Seat 4 Floor mounted Bench Unknown Unknown	OCCUPANT 18  16 Year Old/Male  Row 4 Seat 6  Floor mounted bench  175 cm (69. 0 in)  110 kg (243 lbs)
Row 4, Seat 4  Floor mounted Bench  Unknown  Unknown	Row 4 Seat 6 Floor mounted bench 175 cm (69. 0 in)
Floor mounted Bench Unknown Unknown	Floor mounted bench 175 cm (69. 0 in)
Unknown	175 cm (69. 0 in)
Unknown	
	110 kg (243 lbs)
Student	Student
None Known	None Known
None	None
None	None
Upright Seated Position	Upright Seated position
Unknown	Unknown
Unknown	Unknown
None Available	None Available
11	10
	None None Upright Seated Position Unknown Unknown None Available

	OCCUPANT 19	OCCUPANT 20
Age/Sex	Unknown	16 Year Old/Female
Seated Position	Row 8, Seat 4	Row 9 Seat 1
Seat type	Floor mounted Bench	Floor mounted bench
Height	Unknown	157 cm (62 in)
Weight	Unknown	54 kg (120 lbs)
Occupation	Student	Student
Pre existing Medical Condition	None Known	None Known
Alcohol Involvement	None	None
Drug Involvement	None	None
Body Posture	Upright Seated Position	Upright Seated position
Hand Position	Unknown	Unknown
Foot Position	Unknown	Unknown
Restraint Usage	None Available	None Available
Additional Occupants	9	8

	OCCUPANT 21	OCCUPANT 22
Age/Sex	14 Year Old/Male	17 Year Old/Female
Seated Position	Row 9, Seat 4	Row 10 Seat 1
Seat type	Floor mounted Bench	Floor mounted bench
Height	Unknown	Unknown
Weight	Unknown	Unknown
Occupation	Student	Student
Pre existing Medical Condition	None Known	None Known
Alcohol Involvement	None	None
Drug Involvement	None	None
Body Posture	Upright Seated Position	Upright Seated position
Hand Position	Unknown	Unknown
Foot Position	Unknown	Unknown
Restraint Usage	None Available	None Available
Additional Occupants	7	6

	OCCUPANT 23	OCCUPANT 24	
Age/Sex	17 Year Old/Female	Unknown/Female	
Seated Position	Row 10, Seat 2	Row10 Seat 4	
Seat type	Floor mounted Bench	Floor mounted bench	
Height	157 cm (62 in)	Unknown	
Weight	77 kg (170 lbs)	Unknown	
Occupation	Student	Student	
Pre existing Medical Condition	None Known	None Known	
Alcohol Involvement	None	None	
Drug Involvement	None	None	
Body Posture	Upright Seated Position	Upright Seated position	
Hand Position	Unknown	Unknown	
Foot Position	Unknown	Unknown	
Restraint Usage	None Available	None Available	
Additional Occupants	5	4	

	OCCUPANT 25	OCCUPANT 26	
Age/Sex	Unknown/Female	16 Year Old/Male	
Seated Position	Row 10, Seat 5	Row 11 Seat 1	
Seat type	Floor mounted Bench	Floor mounted bench	
Height	Unknown	Unknown	
Weight	Unknown	Unknown	
Occupation	Student	Student	
Pre existing Medical Condition	None Known	None Known	
Alcohol Involvement	None	None	
Drug Involvement	None	None	
Body Posture	Upright Seated Position	Upright Seated position	
Hand Position	Unknown	Unknown	
Foot Position	Unknown	Unknown	
Restraint Usage	None Available	None Available	
Additional Occupants	3	2	

	OCCUPANT 27	OCCUPANT 28	
Age/Sex	15 Year Old/Male	15 Year Old/Male	
Seated Position	Row 12, Seat1	Row 12 Seat 4	
Seat type	Floor mounted Bench	Floor mounted bench	
Height	168 cm (66 in)	Unknown	
Weight	54 kg (120 lbs)	Unknown	
Occupation	Student	Student	
Pre existing Medical Condition	None Known	None Known	
Alcohol Involvement	None	None	
Drug Involvement	None	None	
Body Posture	Upright Seated Position	Upright Seated position	
Hand Position	Unknown	Unknown	
Foot Position	Unknown	Unknown	
Restraint Usage	None Available	None Available	
Additional Occupants	1	0	

# **INJURIES**:

# Vehicle 1

	INJURY	AIS/OIC CODE	ICD-9	SOURCE
DRIVER	Not injured			
OCCUPANT 2	Not Injured			
OCCUPANT 3	Unknown			
OCCUPANT 4	Contusion, head	190402.1,9	620	Flying Rocks
OCCUPANT 5	Unknown			
OCCUPANT 6	Unknown			
OCCUPANT 7	Laceration, left arm	790600.1,2	884.0	Unknown
	Laceration, left side of head	190600.1,2	873.0	Flying Rocks
	Contusion, left side of head	190402.1,2	920	Flying Rocks
OCCUPANT 8	Stitches on leg (previous injury) reopened	890600.1,2	894.0	Seat Bottom
	Contusion, head	190402.1,9	920	Flying Rocks
OCCUPANT 9	Unknown injury, head	115099.7,0	854.0	Window Frame
OCCUPANT 10	Contusion, head	190402.1,9	920	Flying Rocks
OCCUPANT 11	Laceration, Knee	890600.1,9	891.0	Unknown
	Laceration, face	290600.1,9	873.40	Flying Rocks
	Loss of Consciousness	161000.2,0	850.9	Unknown
OCCUPANT 12	Laceration, above upper occipital scalp (6 cm)	190602.1,6	873.0	Flying Rocks
	Closed head injury Amnesia	16100.2,0	850.9	
	C-spine strain	640278.1,6	847.0	
OCCUPANT 13	Unknown			

OCCUPANT 14	Abrasions, left arm	790202.1,2	919.0	Unknown
	Lacerations, top of head	190600.1,6	873.0	Flying Rocks
	Abrasion, right left posterior	890202.1,1	916.0	Unknown
	Contusion, left leg	890402.1,2	924.9	Unknown
	Contusion, right leg	890402.1,1	924.9	Unknown
OCCUPANT 15	Abrasions, unknown location	990200.1,9	919.0	Flying Rocks
	Contusion, right leg	190402.1,9	924.9	Flying Rocks
OCCUPANT 16	Unknown			
OCCUPANT 17	Unknown			
OCCUPANT 18	Laceration, left forehead, over left eye (3.25 cm)	2290602.1,7	873.42	Flying glass
	Cerebral contusion	140602.3,9	851.0	Flying rocks
	Laceration, scalp	160600.1,9	873.0	Flying glass
OCCUPANT 19	Unknown			
OCCUPANT 20	Laceration, left knee (2 cm)	890602.1,2	891.0	Unknown
	Laceration, nose	290600.1,4	873.20	Flying rocks
	Laceration, left hand	790600.1,2	882.0	Flying glass
	Laceration, left forearm	790600.1,2	881.00	Flying glass
	Laceration, right face	290.600.1,1	873.40	Flying glass
	Fracture, vertebrae C-7	650216.2,6	805.07	Unknown
	Fracture, (multiple) nose	251000.1,4	802.0	Flying rocks
	Laceration, top of head	190600.1,6	873.0	Flying rocks
	Cervical strain	640278.1,2	847.0	Non-contact
200	Laceration, right wrist	790602.1,1	881.02	Flying glass
	Abrasion, left hand	790202.1,2	914.0	Flying rocks

OCCUDANT 21	I acception Imag	900600 1 0	901.0	E1-3
OCCUPANT 21	Laceration, knee	890600.1,9	891.0	Flying rocks
	Laceration, head	160600.1,9	873.0	Flying glass
OCCUPANT 22	Laceration, left hand	790600.1,2	882.0	Flying glass
	Laceration, right hand	790600.1,1	882.0	Flying glass
	Laceration, face	290600.1,9	873.40	Flying glass
	Laceration, head	190600.1,9	873.0	Flying glass
	Fracture, right clavicle	752200.2,1	810.0	Flying rocks
	Sprained, left hand	750402.1,2	842.1	Unknown
	Abrasions, (multiple) whole body	990200.1,0	919.0	Unknown
	Laceration, interior of mouth	243204.1,8	873.60	Unknown
	Cervical strain	640278.1,6	847.0	Non-contact
OCCUPANT 23	Fracture bilateral and dislocations of TMJ joints of mandible, right jaw went through right ear	250600.1,3 251604.2,3	802.25 830.1	Unknown
	Periorbital and temporal soft tissue swelling	result, no injury	N/A	Unknown
	Laceration, frontal scalp (10 cm)	190604.2,4	873.0	Flying rocks
	Fracture 5 <sup>th</sup> metacarpal of left hand	752002.2,2	815.09	Unknown
	Major laceration, top of head, 100 stitches and staples	190604.2,6	873.1	Flying rocks
	2 <sup>nd</sup> molar, right side tooth broken	251.404.1,8	873.63	Unknown
	1 <sup>st</sup> molar right side tooth broken	251404.1,8	873.63	Unknown
	Incisor, right side bottom, chipped	251404.1,8	873.63	Unknown

	Broken, vessel, left eye	220200.1,2	900.89	Unknown
	Laceration, face, below lip	290600.1,8	873.40	Unknown
	Contusion, left elbow	790404.1,2	923.11	Unknown
	Right temporal and orbital region, dense foreign body	N/A	N/A	Unknown
OCCUPANT 24	Unknown			
OCCUPANT 25	Unknown			
OCCUPANT 26	Laceration, left head	190600.1,2	873.0	Flying rocks
	Unknown injury, right leg	N/A	N/A	Unknown
	Unknown injury, left leg	N/A	N/A	Unknown
OCCUPANT 27 (case occupant)	Contusion, left eye	297402.1,2	621.0	Unknown
	Contusion, right eye	297402.1,1	921.0	Unknown
	Fracture, right clavicle	752200.2,1	810.0	Unknown
	Contusion, right shoulder	790402.1,1	923.00	Unknown
	Contusion, right arm	790402.1,1	923.9	Unknown
	Contusion, right chest	490402.1,1	922.1	Unknown
	Avulsion, scalp	190800.1,9	873.1	Unknown
	Fracture, left 5 <sup>th</sup> rib anterior, with hemothorax in both lungs	450214.3,2	807.05 860.3	Flying rocks
	Avulsion, muscle along vertebrae column	740400.2,9	879.6	Unknown
	Fracture, right pelvis	852600.2,1	808.0	Unknown
	Brain minimal uncal herniation	140202.5,8	854.0	Unknown

	Right parietal occipital hemorrhage	140629.4,1	853.0	Unknown
	Brain contusion, with subarachnoid hemorrhage	140204.5,8	851.4 852.3	Unknown
	lacerations, left elbow	790600.1,2	881.01	Unknown
	Contusions, numerous to body	990400.1,0	924.9	Flying rocks
	Chest left anterior abrasions	490202.1,2	911.0	Unknown
OCCUPANT 28	Unknown			

### **COLLISION MEASUREMENTS**

Reference Point: C

Centerline of East/West Highway

Reference Line:

RL #1 is South Edge of North/South Highway RL #2 is North Edge of North/South Highway

DATA POINT RL #1	DISTANCE AND DIRECTION FROM REFERENCE POINT	DISTANCE AND DIRECTION FROM REFERENCE LINE
BRF Skid V1	0	7.8 m N
BLF Skid-V1	31 cm W	7.8 m N
ELF skid-V1	1.9 m W	9.3 m N
ERF skid-V1	1.9 m W	9.3 m N
FRP-RF-V1	9.6 m W	28 cm S
FRP-LF-V1	11.8 m W	30 cm S
FRP-RR-V1	12.2 m W	3.6 m N
Aprox Area of FRP-V2	16.8 m W	10 m S
API #1	7.2 m W	7.3 m N
API #2	12.2 m W	3.4 m N
RL #2		
BLR Scuff V-1	38 cm E	19.5 m N
LR Scuff Midpoint V1	51 cm W	9.3 m N
LR scuff C/O RL #2	4.6 m W	0.0
BRR Scuff	2.1 m W	9.4 m N
ERR Scuff	6.4 m W	2.1 m N

# SCHOOL BUS SEATING CHART

(Injury Severity by Seating Position)

DRIVER No Injury

SEAT ROW

1	2	3
Unk		
AIS-1		
AIS-1	UNK	
AIS-1		AIS-1
AIS-2		AIS-2
AIS-1		
Unk	Unk	SEAT
AIS-3	Unk	SEAT
AIS-2		
AIS-2	AIS-2	
AIS-5		

FRONT DOOR

4	5	6
		No Inj
	Unk	
Unk		AIS-1
Unk		
	AIS-1	Unk
Unk		
AIS-1		
Unk	Unk	
Unk		

**REAR EXIT** 

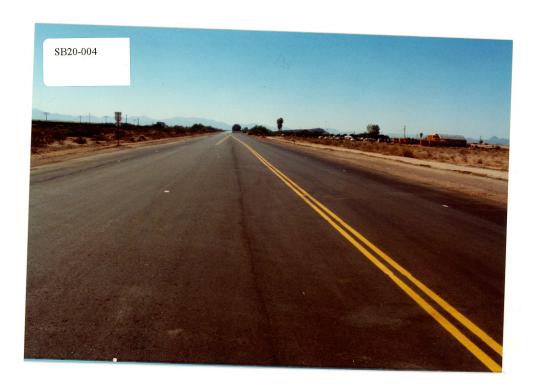
### **PHOTO INDEX**

PHOTO NO.	VEHICLE NO.	DIRECTION OF PICTURE	SUBJECT MATTER
1	V1	South	View from final rest area across impact area
2	V1	Southwest	View from northeast corner
3	V1	_	View across impact area
4-8	V1	West	View back on Vehicles 1's and 3's approach
9-10	V1	East	Approach of Vehicle 1
11	V1	West	View across impact area
12	V1	N/A	Final rest position area
13	V1	Southwest	View from final rest position area
14-17	V2	South	Approach of Vehicle 2
18	V2	North	View back on Vehicle 2's approach
19	V2	Southwest	View to final rest area to final rest position
20	V1/V2	Southwest	View to final rest area of Vehicles 1 and 2
21-22		Northwest	View Northwest
23-25	V2	South	Approach of Vehicle 2
26	V1/V2		Impact to final rest position
27	V1	East	Approach of Vehicle 1
28-30	V2	North	View back of Vehicle 2's approach
31	V1	East	Approach view in turn lane
32-46	V1		Exterior views of Vehicle 1
47-89	V1	_	Interior views of Vehicle1
90-103	V2	-	Exterior views of vehicle 2
103-108	V2	_	Interior views of vehicle 2
109-114	V3		Exterior views of vehicle 3
115-117	V3	_	Interior views of vehicle 3
120-123	V3	_	Views of trailer of Vehicle 3































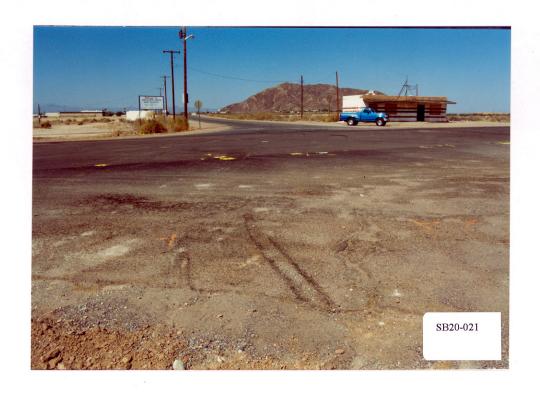














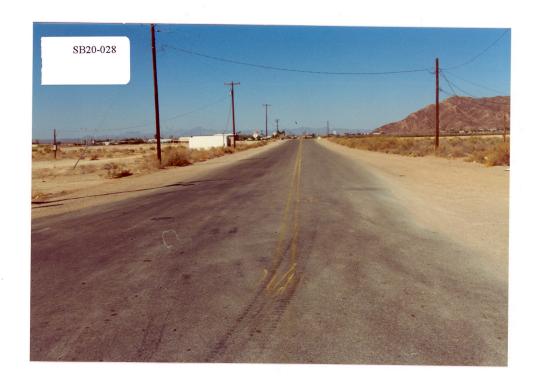


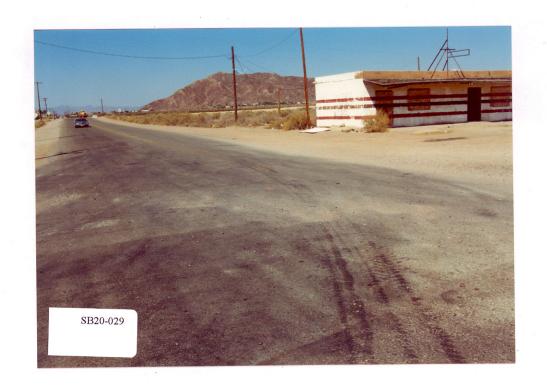






























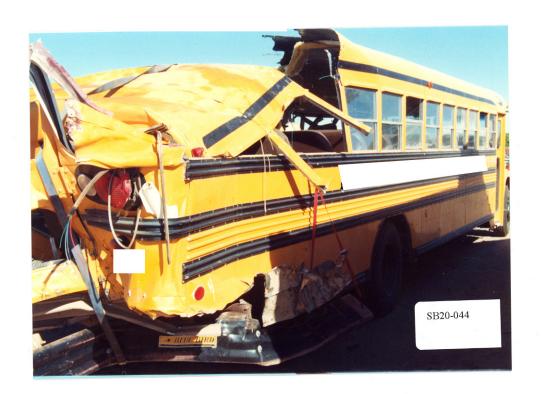




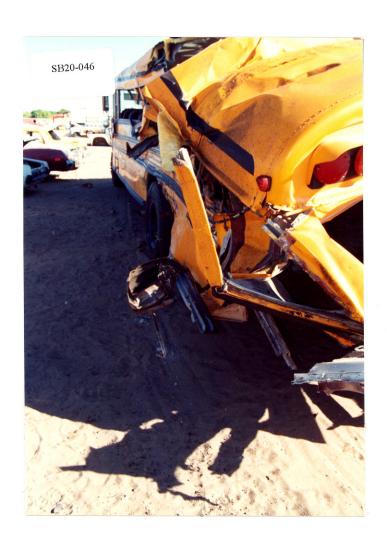






























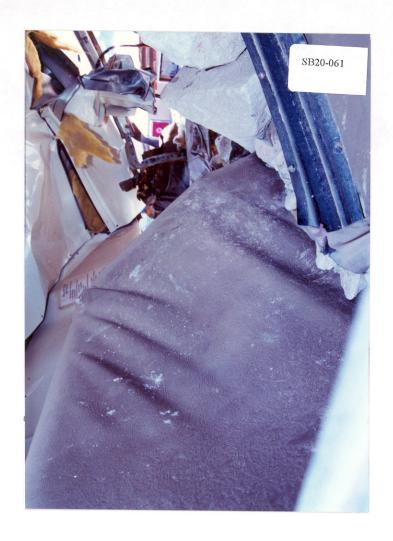






















































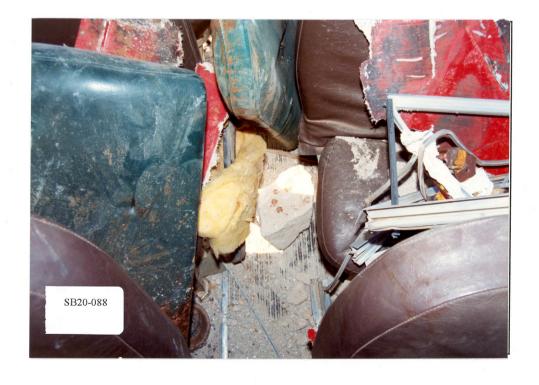








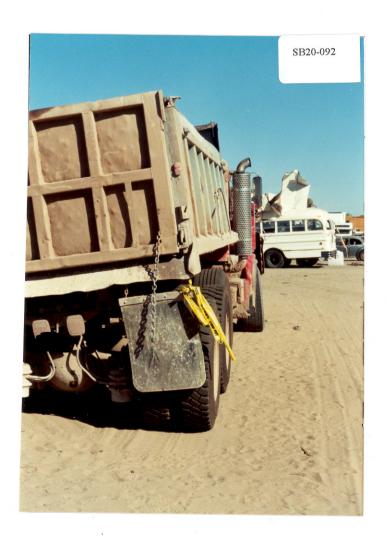












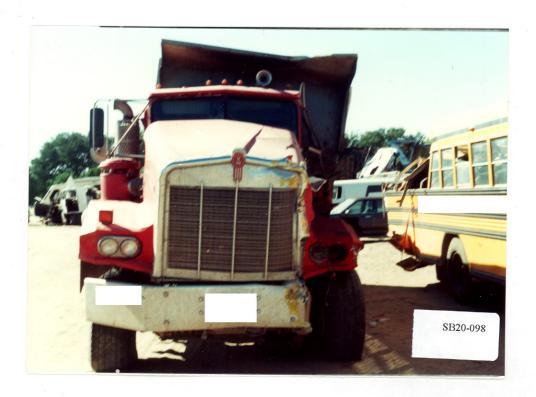






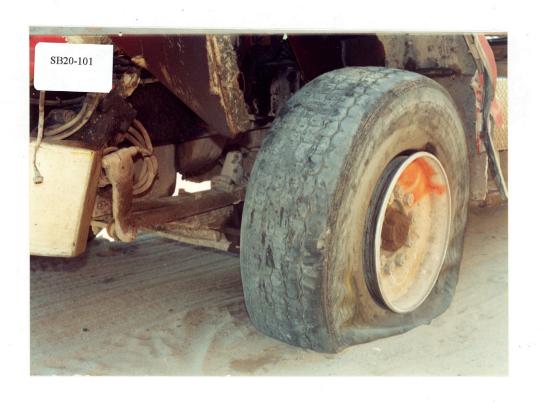




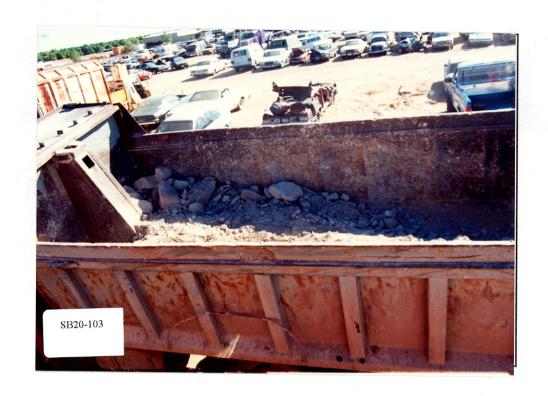


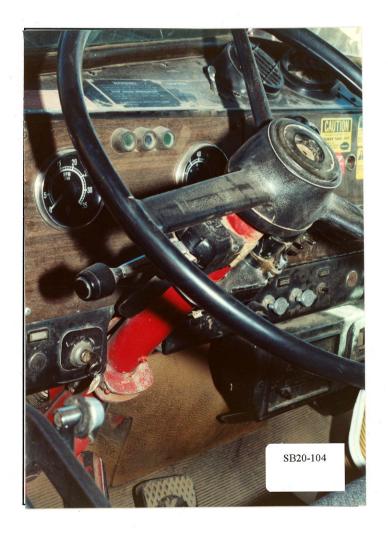










































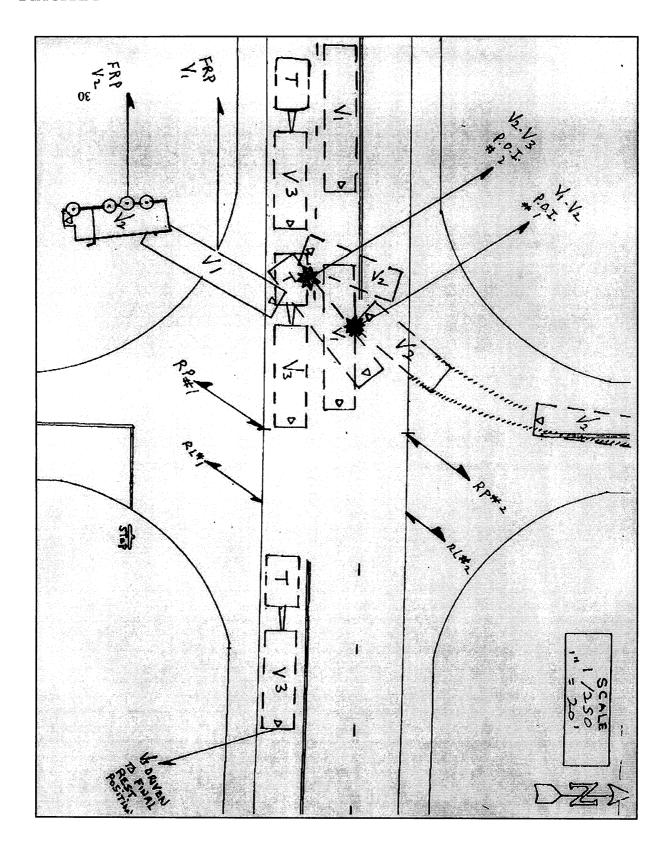








## **DIAGRAM**



## **SCHOOL BUS SEATING CHART** (Injury Severity by Seating Position)

	1	RIVE:				FRON DOOI	
SEAT	1	2	3		4	5	6
ROW							No
1							Inj.
2	Unk.					:	
3	AIS-1	Unk.				Unk.	
4	AIS-1		AIS-1		Unk.		AIS-1
5	AIS-2		AIS-2	Α	Unk.		
6	AIS-1			I		AIS-1	Unk.
7	Unk.	(Unk.	Seat)	S			
8	AIS-3	(Unk.	Seat)	L	Unk.		
9	AIS-2			E	AIS-1		
10	AIS-2	AIS-2			Unk.	Unk.	
11	AIS-1			·			
12	AIS-5				Unk.		

REAR EXIT

## Abbreviations Used In Scene And Photographic Documentation

ft	Feet
in	Inches

AIS Abbreviated Injury Scale

BLF Begin Left Front
BLR Begin Left Rear
BRF Begin Right Front
BRR Begin Right Rear
CBE Cab Behind Engine
CCW Counterclockwise

CDC Collision Deformation Classification

CG Center of Gravity

CM Centimeter

COE Cab Over Engine

CW Clockwise

E, EB East, Eastbound
ELF End Left Front
ELR End Left Rear
ERF End Right Front
ERR End Right Rear
FRP Final Rest Position
IP Intermediate Point

KG Kilogram

KPH Kilometers Per Hour

LF Left Front
LR Left Rear
M Meter

N, NB North, Northbound

NE Northeast NW Northwest

PDOF Principal Direction of Force

POI Point of Impact R Radius of Curvature

RF Right Front
RL Reference Line
RP Reference Point
RR Right Rear

S, SB South, Southbound

SE Southeast SW Southwest

U.S. United States Highway
V1 Vehicle Number 1
W, WB West, Westbound

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				14 - CLASSIFICATION BY TYPE
				YES MAN OFF ROADWAY PRIOR
				COLLISION BETWEEN A MOTOR VEHICLE IN TRANSPORT AND
				1 PEDESTRIAN
				2 DC MOTOR VEHICLE
13 - DESCRIBE WHAT HAP	SKENER SKENER			5 ANIMAL
				6 FIXED OBJECT 7 OTHER OBJECT
				NONCOLLISION INVOLVING A MOTOR VEHICLE IN TRANSPORT
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			•	9 OTHER NONCOLLISION
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				4 SA SA MAKING LEFT TURN 5 O O MAKING RIGHT TURN
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CHECK ONLY ONE  DAYLIGHT  DAWN OR DUSK	CHECK ONLY ONE  1 SCHOOL CROSSING 2 PEDESTRIAN CROSSWALK	CHARACTER	27 - YIOLATIONS/BEHAYIOR  TWO CHOICES PER PERSON  MAY BE SELECTED  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BACKING  12
CHECK ONLY ONE  DAYLIGHT  DAWN OR DUSK  DARKNESS	CHECK ONLY ONE  1 SCHOOL CROSSING  2 PEDESTRIAN CROSSWALK (STRIPED)  3 PEDESTRIAN CROSSWALK	CHARACTER CHECK ONLY ONE  1 2:WAY STRIPED CENTERLIN 2 2:WAY, NO STRIPE 3 2:WAY, PAINTED MEDIAN	27 - YIOLATIONS/BEHAYIOR TWO CHOICES PER PERSON MAY BE SELECTED  IL IN NO IMPROPER ORIVING 2 SPEED TOO FAST FOR CONDITIONS	BACKING  12
CHECK ONLY ONE  AD DAYLIGHT  DAWN OR DUSK  DARKNESS  TES NO  STREET LIGHT	CHECK OMLY ONE  1 SCHOOL CROSSING  2 PEDESTRIAN CROSSWALK (STRIPED)  3 PEDESTRIAN CROSSWALK (NO STRIPING)  4 BRIOGE	CHARACTER CHECK ONLY ONE  1 2-WAY STRIPED CENTERLIN 2 2-WAY. NO STRIPE 3 2-WAY. PAINTED MEDIAN 4 2-WAY. RAISED MEDIAN 5 2-WAY. BARRIER MEDIAN	27 - YIOLATIONS/BEHAYIOR  TWO CHOICES PER PERSON  MAY BE SELECTED  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BACKING  12
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	LIND	Insuranc	e Compa	иy				Telephone	Number			Policy N	Number					EH C	Date / Exp D	ate	
		Trailer (	Other Uni	t) Plate N	ło.	State	Year D	escription of	railer or	Other Unit											
	RAFFIC	U.S. Go	nemmen	Permits	(Issuer and	Number)	LL		1	* Vehicle	Туре				I No.	mber of A	xies		G.V.W. (Re	ois lered	
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YEAR MONTH DAY				Agency Report Number
YEAR MONTH DAY	HOUR	NCIC NO.	OFFICERS ID NO.	
				BEST AVAILABL
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POINT	FROM EDGE	FROM RP	DESCRIPTION OF POINT MEASURED
A	10181		BEGIN LEFT SKUFF VEH.
B	66°N	334E	BEGIN YAW VEH.
C	683N	259€	LIGHT TIRE SKUFF VEHI BEGIN
_ D	42ºN	97E	END LIGHT TIRE SKUFF VEH.
E	342N	12°E	TIRE SMEAR LEFT SIDE VEH. 1
F	312N	2610E	BEGIN LEFT FRONT SKID MADE VI
_6	30°N	23 <sup>3</sup> E	END LEFT FRONT SKID MARK V-2
H	2577	33°€	BEGIN RIGHT FRONT SKID MARK V-2
T	243N	22-6	ENDRIGHT FRONT SILID MARK V-2
	195N	160 €	VISIBLE (LIGHT) SKID RF VEH-2
K	227N	110E	DEFLECTION OF LEFT SKUFF V-1
<u></u>	11-17	125W	END VISIBLE TIRE MARKS V-1
M	095	0 <u>8</u> E	RF TIRE VEH 2 FINAL REST
N	25°s	3 <sup>3</sup> W	RR TIRE VEHZ FINAL REST
_0	28 <sup>7</sup> s	175W	R FAR REAR TIRE VEH, I FINAL
_Ρ	3372	172W	R NEAR REAR TIRE VEH. 1 FINAL
Q	3735	173W	DISENGAGES FORWARD (P) AXEL VEH! FINA
R	4925	127M	R FRONT WHEEL VEH. I FINAL REST
	Ø 6 S	16ºE	BELLIN SKID #1 (TRANLER) VEH. 3
	915	386	BEAN SKID #Z (TRANGER) VEH. 3
U	11-5	52°E	CONNECTION SKIDS #1 # "Z TRAILER V-3
	1395	72ºE	TRAILER SKIPS (TRAILER) FXIT WITHISTER
$\overline{W}$	Ø	1673E	#1 SKID ENTER ROAD VEH.3 (TRAILER
X	Ø	1926	#2 SKID ENTER ROAD VEH. 3 (TRAILER)
<u> </u>	126N	208 E	41 JKID CROSS CENTERLINE V-3 (TRAILER,
2	126N	2702E	#Z SKID TOUCH CENTERLINE V-3 (TRAILER
AA	126 N	351pE	41 SKID CROSS BACK OFNIBRLINE V-3 (TRA
_BB	Ø	342 E	#2 SKID EXIT RUAD V-3 (TRAILER

L				REPORT ID			Agency Report Number
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BEST AVAILABLE

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## LEGEND

O REFERENCE POINT

+ ZERO POINT

\_\_\_ SKID MARK

YAW MARK

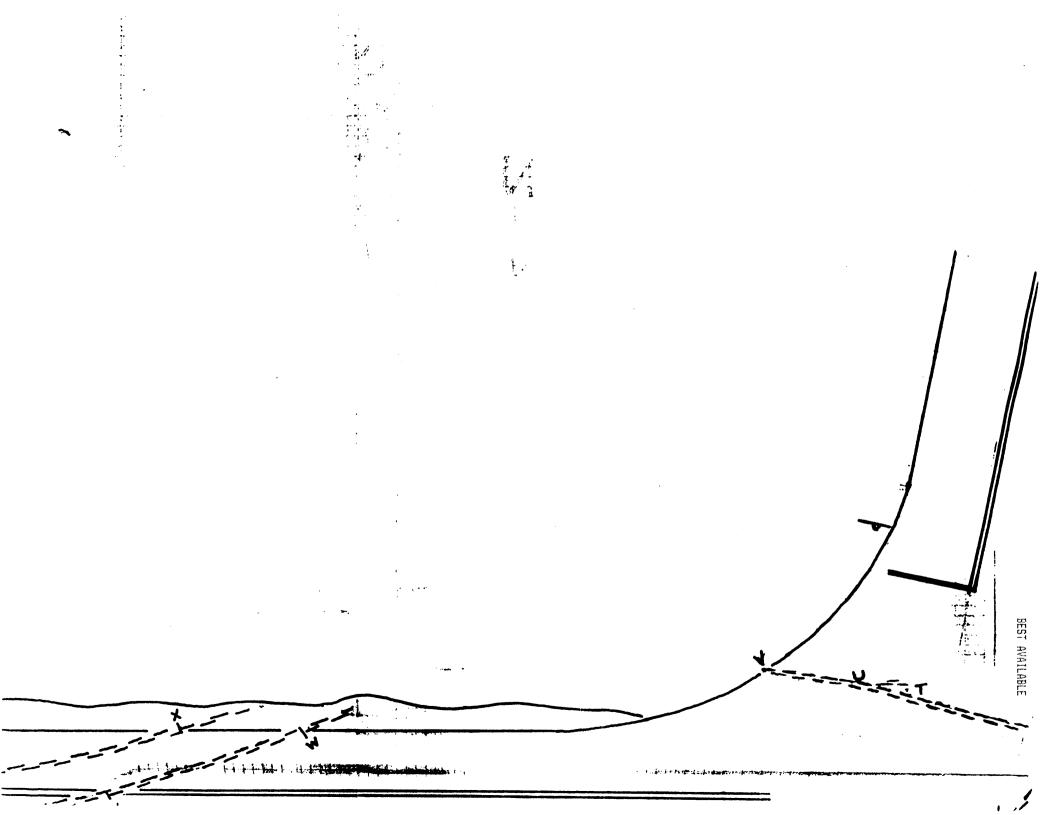
MML TIRE SMEAR

SKUFF

- STOP SIGN

BEST AVAILABLE

0 10 20 SCALE



AVENUE BEST AVAILABLE

N



# DEPARTMENT SUPPLEMENTAL ACCIDENT REPORT

On! I was assig	ned to assist in an in	jury collision that o	ccurred at Avenue
East and Highway	at approximately	hours.	

Upon arrival I observed a heavily damaged dump truck lying on its left side next to a heavily damaged school bus. The school bus was missing apptimately one third of the roof and window supports. There were injured children in the bus being treated by adults. There were several people digging in the dump truck load at the rear of the bus.

The dump truck was sitting facing south on its left side and the bus was facing north with a slight easterly cant.

While on scene I assisted with photographs, treating the injured and crowd control as well as obtaining a list of students on that bus.

After the injured were either treated and sent back to the school for transport to

Regional Medical Center or transported by medical personnel I assisted
with measuring and marking the collision scene.

During this period of time we learned that there was a third vehicle involved in the collision.



<b>Α</b> ι	I requested t	hat the medical exa	aminer be advised o	of a fatality and
reque	sted permissior	to remove the vict	im from the scene,	as well as an autopsy
to be	performed. Aut	horization from	was given	at hours.
At	hours I was	advised to go to the	•	_ and _
	to obtain a uri	ne sample from the	dump truck driver.	While enroute to the
distric	t I was advised	that the driver had	left for in a p	private vehicle. I
reques	sted that an offi	cer meet him at the	e emergency room t	o obtain the urine
sampl	e and I returned	d to the collision sce	ene.	
At	hours Deputy	County.	adv	ised he wanted both
vehicle	es impounded a	at		. I requested two
(2) hea	avy duty tow tru	icks to the scene.	After the vehicles w	ere removed and
additic	onal measureme	ents were taken the	scene was cleared	by all officers.
				•
At	hours on	i began the Sta	ate Accident Form	and briefed Sgt.
	. •			
At	hours	<b>,</b> ,		and I
went to	o . High	n School to begin in	terviewing the victir	ms. There were only
two at	the school and	Corporal	completed the int	erviews.

At	hours I receiv	ed from Sgt. €	the notes the	at had beer	n taken at
د	by ' Police	e Department offic	ers the previou	s morning.	
At .	I spoke to Off	icer	of the		<sub>.</sub> and
was ad	lvised that the ι	ırine analysis was	required by Fed	deral Motor	Carrier
Regula	tion and Title 4	9 of the Re	evised Statues.	Officer	had
respon	ded to the collis	sion site and had ir	spected the du	ımp truck.	He advised
that at	the time of the	collision the truck o	only had 25% b	raking capa	abilities and
that 75	% of the brakes	s were out of adjus	tment. He furth	ner advised	that the tag
axle wa	as the only axle	that was in guideli	nes for brake a	djustment.	
At	hours I went to	o the laboratory at		l Medical C	enter and
obtaine	d a blood samp	ole that had been to	aken on !	from the t	ous driver
	At	hours the blo	ood sample wa	s package	d and placed
in the e	vidence refrige	rator at the :	Office in	and labe	led
At	hours I met wi	th	-	of the	County
		e we discussed pos			
warrant	s for an additio	nal mechanical che	eck of the vehic	le and the	maintenance
records	for the dump to	ruck, as well as the	e driver (		personnel
file from	the	<u> </u>	-		

I requested a copy of driving record fro M.V.D. This was obtained by Sgt. ( of the \ 1 County Sheriff's Office. hours I completed the Fatal Supplement report and At approximately entered the victim's personal property into evidence. It was labeled then completed the peparament or a usus series laboratory request form on the blood sample. . hours I began preparing search warrants for the mechanical inspection of At the truck and obtaining the maintenance records and personnel files for I then called the County Attorney's Office and spoke to Deputy County Attorney ..... for a review of the warrants before serving them. I arrived at " · · · hours where I met with \_.∴ and

jake brake was operational. and his team then completed their inspection of the vehicle and the search warrant was completed at \_\_\_\_ hours.

reconstructionist

Prior to serving the first search warrant I c	ontacted the Departme	nt of Public
Safety to have an officer from the special	services section assist	with the records
inspection.		•
The	was closed u	upon arriving so
the search warrant was not served until	hours.	•
Present during the service of the search w	arrant were myself,	r
· · · · · · · · · · · · · · · · · · ·	-	They
furnished us with the documents requested	d. During the conversa	ation, they
advised that a had been	trainer with the	truck.
further said that if the daily inspect	ion sheet does not sho	w any vehicle
problems the original copy is discarded.		
then processed the maintenance and pers	sonnel files into evidend	ce and labeled
them through		
At hours the County Attorney's Office	authorized removal an	d return of the
victim's personal property from the bus. I r	emoved the property I v	was able to
ocate (see attached list) and returned it to	, in the	High
School office for distribution.		



On	· at u	hours Deput. ב	y County.	Attomey	,	held a briefir	١Ç
where t	he results o	of the vehicle in	nspection	and sea	arch warra	ants were discussed.	,
Present	t were	. , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	á	and mys	elf. ;	advised that durin	g
the on s	scene inspe	ction the jake	brake sw	itch was	in the off	position and the true	cł
was in (	gear.						
On	<del></del>	hours	·	<b></b> .	and I se	rved a search warrai	าt
at the .	• •••••	-	• • •		t to ret	trieve a copy of their	
mainten	ance proce	dure policies.					
Upon ar	rival we sp	oke to	,	,		رون کا این این این استان این این استان این این استان این این این این این این این این این ا	
is	s the Distric	t Manager,		is the	District Co	omptroller and	
	is the	Vehicle Main	tenance F	oreman			

advised that they have no written formal policy however, he did explain that every two hundred (200) hours of engine time, or approximately 8000 miles the trucks are serviced, such as lube, oil and filter change and that every 600 hours or 24000 miles the trucks come in for service and a preventative maintenance inspection where they change belts, radiator hoses, coolant and adjust the brakes and fix any other problems found.

sticker is placed on the truck. When asked about inspection documentation he stated that they don't have a formal check list but they note it in the computer. He then had a copy of the computer entry program given to me. This is listed as I on the evidence list.

I went on to say that he had certified brake inspectors working in the shop but did not currently have that documentation.

We returned to the 'Substation where I received instruction from E. on how to compare the records and document the information obtained.

yards in it.

On	hours I went to	Library where I
met with a	all the available students who had been on the	e bus at the time of the
collision.		

I requested and received 21 written statements as to what the students saw that morning. Some of the students still showed signs of the injuries sustained during the collision and were obviously emotionally upset.

At \_\_\_\_\_\_ came to the Substation and we conducted a taped interview. During the interview she stated that she saw the dump truck a long way from the intersection and when she realized that he wasn't stopping she tried to get out of his way by accelerating the bus. She further stated that the driver of the truck appeared to be trying to avoid the collision by turning the truck. She said that just before the collision he appeared to throw his hands in the air and appeared scared.

SCC. 27 OCC.)

AUTOPSY REPORT

BEST AVAILABLE

NAME

DOB: -80

AUTOPSY NUMBER

BY ORDER OF

DATE OF DEATH

DATE OF AUTOPSY

WHERE PERFORMED

PROSECTOR

FINAL ANATOMIC DIAGNOSIS

Cause of Death:

Immediate Cause of Death; Trauma and asphyxia; Due to or as a Cause of; Bus vs dump truck accident (collision).

cc:

Records,

Department

1

The autopsv is authorized by ... at the PM with the help of Officer of the

at approximatelty
and in the presence of

The body is of a young, appearing male in his teens. There is an identifying name tag labeled

BR physician, -76, 119Y M B2\*. The body has been identified at the morgue by his father in the presence of !

The body is unembalmed, weighs approximately 120 pounds and measures approximately 66 inches in length. The hair is black. The face shows numerous petechiae. There is blood present in the nares. There is edema and chemosis of the left and right eyes. Uncircumcised. The body is covered partially by a black T-shirt, 'Anchor Blue brand blue jeans, the belt has a 'C' in the buckle, 'British Knights' brand boots, and white socks. The body shows on the right thigh clothing markings drawing the right jean pocket. The right clavicle is fractured. There are areas of bruising noted, one going from the area of fracture of the right clavicle all the way to the mid third of the right arm and another one surrounding the right nipple. There are small excortations noted in the anterior chest on the left side. Uncircumcised The posterior aspect reveals deep, penetrating, irregular wounds in the left elbow; there are deep pressure marks with clothing patterned on the posterior chest, and numeroup patterns and contused pressure marks are present on the trunk. The anterior chest is assymetric with the left side sunken in relation to the right side.

Incisions: The Y-shaped incision is used to examine the contents of the trunk. The intermastoid incision is used to examine the contents of the head.

There is dissection of the scalp from the skull (avulsion) on the right side. Periostial petechiae are noted. There is Tiquid blood escaping from the scalp pocket created by the avulsion. There is hemorrhage in to the right temporal area and hemorrhage in the frontoparietal scalp. There is no apparent fracture of the skull. The brain weighs 1620 grams and shows edema. Minimal uncal herniation is present. There is mild subarachnoid hemorrhage on the right parietal occipital area and on the right cerebellar hemisphere.

The chest reveals extensive hemorrhage of the soft tissue anteriorly. There is a fracture of the left fifth rib anteriorly. There is no blood inside the thoracic cavity. Minor hemorrhage is found around the upper thoracic vertebral soft tissue. The thymus weighs 30 grams and appears unremarkable.

The abdomen reveals a retroperitoneal hematoma on the right side extending from the diaphragm below with avulsion of muscle (iliopsoas) along the vertebral column. There is a palpable fracture of the right pelvis. A minimal amount of blood is found inside the upper abdominal cavity

2

surfounding the spleen.

The heart shows no remarkable features. The endocardium, myocardium and pericardium are unremarkable. The valves show no unusual features. The heart weighs 240 grams. There is a minimal degree of atherosclerosis of the coronary vessels.

The right lung weighs 300 grams; the right lung weighs 250 grams. They show congestion. There is extensive hemorrhage in both lungs, mostly subpleural.

The liver weighs 920 grams. It shows small subcapsular hemorrhage on the right side. The organ has a nutmeg appearance on the cut surface.

The spleen reveals a hilar fracture and blood clots in the hilum. A small accessory spleen is present. The spleen itself weighs 50 grams.

The pancreas is of normal size, shape and appearance. It weighs approximately 40 grams.

The appendix is unremarkable.

The stomach contains no food.

The small and large bowel are unremarkable.

There is a large periadrenal hemorrhage on the right side. The right and left adrenal glands themselves are unremarkable.

The right kidney weighs 110 grams; the left kidney weighs 100 grams. The organs reveal congested medulla and pale cortex. There is hemorrhage in the upper pole of the right kidney. The ureters are unremarkable. The urinary bladder reveals no unusual features. The prostate shows no unusual changes.

Microscopic Examination

1

Heart: Sections from pericardium, endocardium and myocardium reveal no unusual features. Sections from coronary vessel reveals minimal atherosclerosis. There is no evidence of hemorrhage or unroofing.

Liver: Section from liver reveals central focal congestion with no necrosis of hepatocytes. There is a minimal degree of subcapsular hemorrhage also present.

Lung: Section from lung reveals severe congestion and hemorrhage with no increase in inflammatory infiltrate. The alveolar spaces are of normal thickness. The bronchioles are unremarkable. A minimal degree of anthracosis is present.

Kidney: Section from kidney reveals congestion. No other remarkable features are identified.

Spleen: Section from spleen reveals congestion. The capsule is of normal thickness. The red and white pulp are unremarkable.

CNS: Sections from CNS reveal mild perinuclear clearing and a minimal degree of congestion. There is a minimal degree of subarachnoid hemorrhage noted in the cerebellar section.



SKULL

A single lateral view was taken showing evidence of air inside the cranium. I suspect a fracture in the temporal region, either on the right or left. There are metallic opacities which could represent artifact.

IMPRESSION: There is evidence of air within the cranial cavity.

· CHEST, AP

A very small cardiac silhouette is noted. There is air surrounding the heart suggestive of pneumopericardium. The lungs are not grossly abnormal. There is apparently no pneumothorax. There are multiple artifacts of varying sizes probably representing gravel. No rib fracture is evident.

IMPRESSION: There is evidence of air in the pericardium.

PATIENT NAME:

MEDICAL RECORD #:

00 00 00

PATIENT (BILLING) #:

ROOM #:

AGE:

REFERRING PHYSICIAN:

DATE OF SERVICE:

MEDICAL RECORD REPORT

REGIONAL MEDICAL CENTER -

0

National Highway Traffic Safety Administration

## ACCIDENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

- 1. Primary Sampling Unit Number
- 2. Case Number Stratum

DS1-95-513-020

#### **IDENTIFICATION**

3. Number of General Vehicle Forms Submitted

Ø3

4. Date of Accident (Month, Day, Year)

FALL INSERDAY 9 85

5. Time of Accident

MORNING

Code reported military time of accident.

NOTE: Midnight = 2400 Unknown = 9999

# SPECIAL STUDIES - INDICATORS

Check ( ) each special study (SS15-SS18 below) that has been completed; code 1 for the checked special studies and 0 for the special studies not checked.

6. \_\_\_ SS15 Administrative Use

 $\phi$ 

7. \_\_\_\_ SS16 Pedestrian Crash Data Study
(Data for this special study available
in a separate file.)

0

8. \_\_\_ SS17 Impact Fires

 $\phi$ 

9. \_\_\_ SS18 Unsafe Driver Actions

9

10. \_\_\_ SS19 \_\_\_\_

#### NUMBER OF EVENTS

11. Number of Recorded Events in This Accident

<u>\$\phi 3</u>

Code the number of events which occurred in this accident.

#### **ACCIDENT EVENTS**

For each event that occurred in the accident, code the lowest numbered vehicle in the left columns and the other involved vehicle or object in the right columns.

Accident Event Sequence Number	Vehicle Number	Class Of Vehicle	General Area of Damage	Vehicle Number or Object Contacted	Class Of Vehicle	General Area of Damage
12. <u>0</u> <u>1</u>	13. <u>4 /</u>	14. <u>5 Ø</u>	15. <u>L</u>	16. <u>Ø ユ</u>	17. <u>4</u> \$	18. <u>F</u>
19. <u>0</u> <u>2</u>	20. <u>Ø 1</u>	21. <u>5</u> Ø	22. <u>B</u>	23. <u>Ø 3</u>	24. 6	25. <u> </u>
26. <u>0</u> <u>3</u>	27. <u>Ø J</u>	28. <u>6</u> Ø	29. <u>R</u>	30. 3 1	31. <u>Ø</u> Ø	32. 1
33. <u>0 4</u>	34	35	36	37	38	39
40. <u>0</u> <u>5</u>	41	42	43	44	45	46

IF, GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

		CODES	OR CL	ASS OF VE	HICLE	
(00) Not	المنظمين ممجمعه	_		(21)	Large sielere terrele L. A. E.O.	10 lear 01 (140)
	a motor vehicle				Large pickup truck (s 4,50	
	•	wheelbase < 254 cm) se ≥ 254 but < 265 cm)			Other pickup truck (s 4,50	•
	•	elbase ≥ 265 but < 278 cm)		(39) (45)	Unknown pickup truck typ Other light truck (≤ 4,500	
		e ≥ 278 but < 291 cm)		• •	Unknown light truck type (	-
	est (wheelbase	•			Unknown light vehicle type	
	nown passenge				School bus (excludes van t	
	pact utility vel				Other bus (> 4,500 kgs G	
	•	e (≤ 4,500 kgs GVWR)			Unknown bus type	• • • • • • • • • • • • • • • • • • • •
•	•	on (≤ 4,500 kgs GVWR)			Truck (> 4,500 kgs GVW)	B۱
	nown utility typ				Tractor without trailer	14
	van (≤ 4,500 k				Tractor-trailer(s)	
	e van (≤ 4,500			, ,	Unknown medium/heavy to	ruck type
		ous (≤ 4,500 kgs GVWR)			Unknown light/medium/hea	
		1,500 kgs GVWR)			Motored cycle	ary trook typo
		(≤ 4,500 kgs GVWR)			Other vehicle	
		uck (≤ 4,500 kgs GVWR)		· · · · · ·	Unknown	
		2222222				
CDS APPL	ICARLE (C	CODES FOR GENER  Not a motor vehicle		AREA OF Right side		(T) Top
AND OTH	-	N) Noncollision		Left side	•	(U) Undercarriage
VEHICLES	•	F) Front		Back		(9) Unknown
		,		- Duok		(5) OTIKITOWIT
TDC		)) Not a motor vehicle		Left side		(C) Rear of cab
APPLICAB		N) Noncollision	(B)		nit with cargo area	(V) Front of cargo area
VEHICLES		F) Front			ailer or straight truck) (T)	
	(F	R) Right side	(D)	Back (rea	r of tractor)	(U) Undercarriage
						(9) Unknown
		CODES FOR VEHICLE N	ILIME	RER OR O	BJECT CONTACTED	
(01-30) -	- Vehicle Num				Fence	
					Wall	
Noncollisi	on			(59	Building	
(31) C	Overturn – roll	over (excludes end-over-end)		(60)	Ditch or culvert	
	Rollover — end				Ground	
	ire or explosio	n			Fire hydrant	
	lackknife				Curb	
(35) C	Other intraunit	damage (specify):			Bridge	
(36) N	loncollision inju	10/		(68)	Other fixed object (specif	y):
	ther noncollisi			(69)	Unknown fixed object	
(00) T					-	
(39) N	loncollision —	details unknown			n with Nonfixed Object	
Callinian \	Mish Fired Oh:			(70)	Passenger car, light truck	, van, or other vehicle
	With Fixed Obj ree (≤ 10 cm i			(71)	not in-transport	:
	ree (\$ 10 cm	•			Medium/heavy truck or be Pedestrian	us not in-transport
	Shrubbery or bu				Cyclist or cycle	
	mbankment	1311			Other nonmotorist or con	vevance
		e or post (any diameter)		(/-/	other nonmotorist or con	veyance
, , , ,	, por	e poor (a.r.) diamotor,		(75)	Vehicle occupant	
Nonbreak	away Pole or F	Post			Animal	
(50) P	ole or post (≤	10 cm in diameter)		(77)	Train	•
(51) P	ole or post (>	10 cm but ≤ 30 cm in diameter	er)		Trailer, disconnected in tr	
		30 cm in diameter)			Object fell from vehicle in	
(53) P	ole or post (dia	ameter unknown)		(88)	Other nonfixed object (sp	ecify):
(54) C	Concrete traffic	barrier		(89)	Unknown nonfixed object	
	npact attenuat			,,,,,		
		rrier (includes guardrail)		(98)	Other event (specify):	
(5	specity):			(99)	Unknown event or object	
				, ,		

# **GENERAL VEHICLE FORM**

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number	12. Speed Limit Ø8 Ø
2. Case Number - Stratum DS/ - 95-SB - 420	Code posted or statutory speed limit in kmph (999) Unknown
3. Vehicle Number	
VEHICLE IDENTIFICATION	$\underline{50} \text{ mph } \times 1.6093 = \underline{400} \text{ kmph}$
4. Vehicle Model Year Code the last two digits of the model year (99) Unknown	13. Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present (7) Not reported (8) No driver present
5. Vehicle Make (specify): $23$	(9) Unknown
Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown	14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given
6. Vehicle Model (specify):  SCHOOL BUS  Applicable codes are found in your NASS Data Collection, Coding and Editing Manual.	(97) AC test performed, results unknown (98) No driver present (99) Unknown Source:
(999) Unknown	,
7. Body Type Note: Applicable codes may be found on the back of this page.	15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present (1) Yes other drug(s) present
8. Vehicle Identification Number	(7) Not reported (8) No driver present
Left justify; Slash zeros and letter Z (0 and Z) No VIN—Code all zeros Unknown—Code all nines	(9) Unknown  16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify):
9. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus	(3) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given
(4) Military (5) Police (6) Ambulance	17. Driver's Zip Code
(7) Fire truck or car (8) Other (specify):	(00001) Driver not a resident of U.S. or territories
(9) Unknown  OFFICIAL RECORDS	Code actual 5-digit zip code (99998) No driver present (99999) Unknown
1	(See See ) Chikheviii
10. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic)
11. Police Reported Travel Speed Code to the nearest kmph (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown	(4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify):  (8) No driver present
$\phi \leq \text{mpH'} \times 1.6093 = \phi \phi 8 \text{ kmph}$	(9) Unknown

## **CODES FOR BODY TYPE**

#### CDS APPLICABLE VEHICLES

#### **Automobiles**

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

#### Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

#### Utility Vehicles (≤ 4,536 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

#### Van Based Light Trucks (≤ 4,536 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,536 kgs GVWR)
- (23) Van based motorhome (\$\(\perp 4,536\) kgs GVWR)
- (24) Van based school bus (≤ 4,536 kgs GVWR)
- (25) Van based other bus (< 4,536 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

#### Light Conventional Trucks (Pickup style cab, 4,536 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)
- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

#### Other Light Trucks (≤ 4,536 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

#### OTHER VEHICLES

#### Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

#### Medium/Heavy Trucks (> 4,536 kgs GVWR)

- (60) Step van (> 4,536 kgs GVWR)
- (61) Single unit straight truck (4,536 kgs < GVWR ≤ 8,845 kgs)
- (62) Single unit straight truck (8,845 kgs < GVWR ≤ 11,793 kgs)
- (63) Single unit straight truck (> 11,793 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

# Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):
- (89) Unknown motored cycle type

#### Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	PRECRASH ENVIRONIVIENTAL DATA		25.	Roadway Surface Condition	1
19.	Relation To Interchange Or Junction	2		(1) Dry	
	(0) Non-interchange area and non-junction			(2) Wet (3) Snow or slush	
	(1) Interchange area related			(4) Ice	
	At a the same transfers			(5) Sand, dirt, or oil	
	Non-Interchange junctions (2) Intersection related			(8) Other (specify):	
	(3) Driveway, alley access related			(9) Unknown	
	(4) Other junction (specify)				
			26.	Light Conditions	_1
	(5) Unknown type of junction			(1) Daylight	
	(0) Halmanna			(2) Dark	
	(9) Unknown			(3) Dark, but lighted (4) Dawn	
		4		(5) Dusk	
20.	Trafficway Flow	$\varphi$		(9) Unknown	
	(0) Not physically divided (two way traffic)				
	(1) Divided trafficway-median strip without positi	ive			d
	barrier (2) Divided trafficway-median strip with positive		27.	Atmospheric Conditions	<u>¥</u> _
	barrier			(0) No adverse atmospheric-related driving conditions	
	(3) One way traffic			(1) Rain	
	(9) Unknown			(2) Sleet/hail	
		_		(3) Snow	
21.	Number Of Travel Lanes	<b>メ</b>		(4) Fog	
	(1) One			(5) Rain and fog	
	(2) Two			<ul><li>(6) Sleet and fog</li><li>(7) Other (e.g., smog, smoke, blowing sand or</li></ul>	
	(3) Three			dust, etc.) (specify):	
	(4) Four (5) Five				
	(6) Six			(9) Unknown	
	(7) Seven or more		20	Traffic Control Device	d
	(9) Unknown		20.	(0) No traffic control(s)	<del>\rightarrow</del>
		,		(1) Traffic control signal (not RR crossing)	
22.	Roadway Alignment				
	(1) Straight			Regulatory	
	(2) Curve right (3) Curve left			<ul><li>(2) Stop sign</li><li>(3) Yield sign</li></ul>	
	(9) Unknown			(4) School zone sign	
	, , , , , , , , , , , , , , , , , , , ,			(5) Other regulatory sign (specify):	
23	Roadway Profile	1			
_0.	(1) Level			(6) Warning sign (not RR crossing)	
	(2) Uphill grade (>2%)			<ul><li>(7) Unknown sign</li><li>(8) Miscellaneous/other controls including RR</li></ul>	
	(3) Hill crest			controls (specify):	
	(4) Downhill grade (>2%)			control (opcony)	
	(5) Sag (9) Unknown			(9) Unknown	
	(5) STIKIBWII				
24	Poodway Surface Type	<b>ユ</b>	20	Traffic Control Device Functioning	0
24.	Roadway Surface Type (1) Concrete	<del></del>	23.	(0) No traffic control device	<u>¥</u>
	(2) Bituminous (asphalt)			(1) Traffic control device not functioning	
	(3) Brick or block			(specify):	
	(4) Slag, gravel, or stone			(2) Traffic control desire from the in-	
	(5) Dirt (8) Other (specify):			(2) Traffic control device functioning properly (9) Unknown	
	(9) Unknown			(o) Cimilatii	,
	T. T				

	PF	RECRASH DRIVER RELATED DATA		S VEHICLE TRAVELLING  Over the lane line on left side of travel lane
30		er's Distraction/Inattention To Driving		Over the lane line on right side of travel lane
<b>5</b> 0.		or To Recognition Of Critical Event)		Off the edge of the road on the left side
		No driver present		Off the edge of the road on the right side
		Attentive or not distracted		End departure
	(02)	Looked but did not see	(15)	Turning left at intersection
		Distractions	(16)	Turning right at intersection
	(03)	By other occupant(s), (specify):	(17)	Crossing over (passing through) intersection
	(,	o, oaner cooupenn(c), (cp : cn/).	(18)	This vehicle decelerating
	(04)	By moving object in vehicle (specify):	(19)	Unknown travel direction
	(05)	While talking or listening to cellular phone (specify		HER MOTOR VEHICLE IN LANE
		location and type of phone):		Other vehicle stopped
	(06)	While dialing cellular phone (specify location and	(51)	Traveling in same direction with lower steady
	(00)	type of phone):	(52)	speed Traveling in some direction while decelerating
		type of priority).		Traveling in same direction while decelerating Traveling in same direction with higher speed
	(07)	While adjusting climate controls		Traveling in same direction with higher speed
	(80)	While adjusting radio, cassette, CD (specify):		In crossover
				Backing
	(09)	While using other device/controls integral to		Unknown travel direction of other motor vehicle in
	(40)	vehicle (specify):	(33)	lane
	(10)	While using or reaching for device/object brought		
	/11\	into vehicle (specify): Sleepy or fell asleep	ОТН	IER MOTOR VEHICLE ENCROACHING INTO
	(12)	Distracted by outside person, object, or event	LAN	IE .
	(/	(specify):	(60)	From adjacent lane (same direction)—over left
	(13)	Eating or drinking		lane line
	(14)	Smoking related	(61)	From adjacent lane (same direction)—over right
	(97)	Distracted/inattentive, details unknown		lane line
	(98)	Other, distraction (specify):		From opposite direction—over left lane line
	(00)	Links		From opposite direction—over right lane line
		Unknown		From parking lane
31.		Event Movement (Prior to		From crossing street, turning into same direction From crossing street, across path
		ognition of Critical Event)		From crossing street, across paul
	(00)	No driver present Going straight	(6/)	direction
	(02)	Decelerating in traffic lane	(68)	From crossing street, intended path not known
	(03)	Accelerating in traffic lane	(70)	From driveway, turning into same direction
	(04)	Starting in traffic lane	(71)	From driveway, across path
	(05)	Stopped in traffic lane		From driveway, turning into opposite direction
	(06)	Passing or overtaking another vehicle	(73)	From driveway, intended path not known
	(07)	Disabled or parked in travel lane		From entrance to limited access highway
	(80)	Leaving a parking position	(78)	Encroachment by other vehicle—details unknown
		Entering a parking position		
		Turning right Turning left		ESTRIAN, PEDALCYCLIST, OR OTHER
		Making a U-turn		IMOTORIST
		Backing up (other than for parking position)		Pedestrian in roadway
	(14)	Negotiating a curve	(01)	Pedestrian approaching roadway Pedestrian—unknown location
	(15)	Changing lanes		Pedestrian—unknown location Pedalcyclist or other nonmotorist in roadway
		Merging	(65)	redaicyclist of outer northlotorist in roadway
	(17)	Successful avoidance maneuver to a previous	(specify):	
	(97)	critical event Other (specify):	(84)	Pedalcyclist or other nonmotorist approaching
		Unknown		roadway. (specify):
20			(85)	Pedalcyclist or other nonmotorist—unknown
<b>3</b> 2.		cal Precrash Event <u>6 0</u>	1	location
		VEHICLE LOSS OF CONTROL DUE TO:	(specify):	
		Blow out or flat tire		
		Stalled engine		ECT OR ANIMAL
	(03)	Disabling vehicle failure (e.g., wheel fell off) (specify):		Animal in roadway
	(04)	Non-disabling vehicle problem (e.g., hood flew up)		Animal approaching roadway
		(specify):		Animal—unknown location
	(05)	Poor road conditions (puddle, pot hole, ice, etc.)		Object in roadway Object approaching roadway
		(specify):		Object approaching roadway Object—unknown location
	(06)	Traveling too fast for conditions		Other critical precrash event (specify):
	(UØ)	Other cause of control loss (specify):	(55)	The state of the s
	(09)	Unknown cause of control loss	(99)	Unknown
	()	OTHER DESIGNATION OF THE PROPERTY OF THE PROPE	. ,	

Category	Configur- ation	ACCIDENT TYPES (Includes intent)		
ı	A. Right Roadside Departure		04 SPECIFICS OTHER	05 SPECIFICS UNKNOWN
l Single driver	B. Left Roadside Departure		09 SPECIFICS OTHER	10 SPECIFICS UNKNOWN
	C. Forward Impact		15 SPECIFICS OTHER	16 SPECIFICS UNKNOWN
icway ction	D. Rear-End	23 27 29	ACH • 32) ( SPECIFICS OTHER	EACH • 33)  SPECIFICS  UNKNOWN
II Same Trafficway Same Direction	E. Forward Impact	34 35 36 37 38 39 40 35 CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEHICLE WITH OBJECT	(EACH • 42) SPECIFICS OTHER	(EACH • 43) SPECIFICS UNKNOWN
	F. Sideswipe/ Angle	46 45 45 47 (EACH• 48) SPECIFICS OTHER	(EACH SPECIFICS U	1• 49) NKNOWN
ay cfion	G. Head-On	(EACH • 52) (EACH • 53)  SPECIFICS OTHER SPECIFICS UNKNOWN		
Same Trafficway Oppostle Direction	H. Forward Impact	CONTROL/ CONTROL/ TRACTION LOSS TRACTION LOSS TRACTION LOSS TRACTION LOSS WITH VEHICLE WITH OBJECT	(EACH • 62 SPECIFICS OTHER	SPECIFICS UNKNOWN
=	I. Sideswipe/ Angle	65 (EACH • 66) (EACH • 67) SPECIFICS OTHER SPECIFICS UNKNOWN		
N Change Trafficway Vehicle Turing	J. Turn Across Path	10 73 72 INITIAL OPPOSITE DIRECTIONS INITIAL SAME DIRECTION	(EACH • 74) SPECIFICS OTHER	(EACH • 75)  SPECIFICS UNKNOWN
N Change Vehicle	K. Turn Into Path	77 79 82 82 83 TURN INTO SAME DIRECTION TURN INTO OPPOSITE DIRECTION	(EACH • 84) SPECIFICS OTHER	(EACH • 85)  SPECIFICS UNKNOWN
v Intersecting Paths (Vehice Damage)	L. Straight Paths	87 (EACH • 90) SPECIFICS OTHER	(EACH	91) cs unknown
VI. Miscel- Ianeous	M. Backing Etc.	92 93 OTHER VEHICLE OR OBJECT  BACKING VEHICLE  98 Other Accident Ty 99 Unknown Accident 00 No impact		

. /	
33. Attempted Avoidance Maneuver $/\!$	35. Pre-Impact Location
(00) No driver present	(0) No driver present
(01) No avoidance maneuver	(1) Stayed in original travel lane
(02) Braking (no lockup)	(2) Stayed on roadway but left original travel lane
(03) Braking (lockup)	(3) Stayed on roadway, not known if left original
(04) Braking (lockup unknown)	travel lane
(05) Releasing brakes	(4) Departed roadway
(06) Steering left	(5) Remained off roadway
(07) Steering right	(6) Returned to roadway
(08) Braking and steering left	(7) Entered roadway
(09) Braking and steering right	(9) Unknown
(10) Accelerating	(6)
(11) Accelerating and steering left	
(12) Accelerating and steering right	36. Accident Type
(98) Other action (specify):	(Note: Applicable codes on back of this
(33)	page)
(99) Unknown	
, , , , , , , , , , , , , , , , , , , ,	(00) No impact
•	Code the number of the diagram that best
34. Pre-Impact Stability	describes the accident circumstance
(O) No driver present	(98) Other accident type (specify):
(1) Tracking	(00) 0 000 0000000000000000000000000000
(2) Skidding longitudinally—rotation less than 30	(99) Unknown
degrees	(6.7)
(3) Skidding laterally—clockwise rotation	
(4) Skidding laterally—counterclockwise rotation	
(7) Other vehicle loss-of-control (specify):	
, ,	
(9) Precrash stability unknown	
STOP HERE IE GVOT DI	OES NOT EQUAL 01 - 49
OIOI IILILII OTOI DI	SHUITSI EKUME VI - TV

	OCCUPANT RELATED	44.	Vehicle Cargo Weight, 0
37.	Driver Presence in Vehicle	7	Code weight to nearest
	(0) Driver not present		(000) Less than 5 kilograms
	(1) Driver present	1	(454) 4,536 kilograms or more
	(9) Unknown		(999) Unknown
วя	Number of Occupants This Vehicle		, lbs X .4536 =, kgs
<b>5</b> 0.	(00-96) Code actual number of occupants	1	Source:
	for this vehicle		ROLLOVER DATA
	(97) 97 or more		ROLLOVER DATA
	(99) Unknown	45.	Rollover
39.	Number of Occupant Forms Submitted		(00) No rollover (no overturning)
-		i	Rollover (primarily about the longitudinal axis)
	AIR BAG RELATED	(0	01-16) Code the number of quarter turns
40.	Is this an AOPS Vehicle?		(17) Rollover, 17 or more quarter turns (specify):
	(0) No (includes unknown)	1	(98) Rolloverend-over-end (i.e., primarily about
	(1) Yes - researcher determined		the lateral axis)
	(2) VIN determined air bag system (3) VIN determined automatic (passive) belts	]	(99) Rollover (overturn), details unknown
	(4) VIN determined automatic (passive) bets	16	Rollover Initiation Type
	belts	40.	(00) No rollover
			(01) Trip-over
41.	Air Bag(s) Deployment, First Seat Frontal	1	(02) Flip-over
	(0) Not equipped or not available (1) No air bags deployed	į	(03) Turn-over (04) Climb-over
	Single Air Bag Vehicle	i	(05) Fall-over
	(2) Driver air bag deployed	l	(06) Bounce-over
	(3) Driver air bag, unknown if deployed		(07) Collision with another vehicle
	Multiple Air Bag Vehicle		(08) Other rollover initiation type specify):
	(4) Driver side only deployed		(98) Rolloverend-over-end
	(5) Passenger side only deployed		(99) Unknown rollover initiation type
	(6) Driver and passenger side deployed (7) Driver and passenger side unknown if		
	(7) Driver and passenger side unknown if deployed	47.	Location of Rollover Initiation
	(8) Air bag(s) deployed, details unknown		(0) No rollover (1) On roadway
	(9) Unknown		(2) On shoulder—paved
12	Air Bag(s) Deployment, Other Than First		(3) On shoulder—unpaved
72.	Seat Frontal	Ī	(4) On roadside or divided trafficway median
	(0) Not equipped with an "other" air bag		(8) Rollover-end-over-end (9) Unknown
	(1) Deployed during accident (as a result of	]	(b) Chillian
	impact) (2) Deployed inadvertently just prior to accident		Rollover Initiation Object Contacted
	(3) Deployed, details unknown		(Note: Applicable codes on back of page)
	(4) Deployed as a result of a noncollision event	49.	Location on Vehicle Where Initial Principal
	during accident sequence (e.g., fire, explosion,		Tripping Force Is Applied
	electrical) (5) Unknown if deployed	Ì	(0) No rollover
	(7) Nondeployed		(1) Wheels/tires (2) Side plane
	(9) Unknown	}	(3) End plane
	Omanife them and Hatte and a feet to account to		(4) Undercarriage
	Specify type of "other" air bag present:		(5) Other location on vehicle (specify):
			(6) Non-contact rollover forces (specify):
			(8) Rolloverend-over-end
	VEHICLE WEIGHT ITEMS		(9) Unknown
		50.	Direction of Initial Roll
43		55.	(0) No rollover
	Code weight to nearest		(1) Roll right - primarily about the longitudinal axis
	10 kilograms. (045) Less than 454 kilograms		(2) Roll left - primarily about the longitudinal axis
	(612) 6,124 kilograms or more		(8) Rollover-end-over-end (9) Unknown roll direction
	(999) Unknown		10) CHICHOTH THE GREETICH
	, lbs X .4536 =, kgs		
	Source:		

## CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(57) Fence (58) Wall (00) No rollover (01-30) - Vehicle Number (59) Building Noncollision (60) Ditch or culvert (31) Turn-over - fall-over (61) Ground (32) No rollover impact initiation (end-over-end) (62) Fire hydrant (63) Curb (34) Jackknife (64) Bridge Collision With Fixed Object (68) Other fixed object (specify): (41) Tree (≤ 10 cm in diameter) (42) Tree (> 10 cm in diameter) (69) Unknown fixed object (43) Shrubbery or bush (44) Embankment Collision with Nonfixed Object (70) Passenger car, light truck, van, or other (45) Breakaway pole or post (any diameter) vehicle not in-transport (71) Medium/heavy truck or bus not in-transport (76) Animal (77) Train Nonbreakaway Pole or Post (50) Pole or post (≤ 10 cm in diameter) (51) Pole or post (> 10 cm but ≤ 30 cm in (78) Trailer, disconnected in transport (79) Object fell from vehicle in-transport diameter) (52) Pole or post (> 30 cm in diameter) (88) Other nonfixed object (specify): (53) Pole or post (diameter unknown) (89) Unknown nonfixed object (54) Concrete traffic barrier (55) Impact attenuator (98) Other event (specify): (56) Other traffic barrier (includes guardrail) (specify): (99) Unknown event or object

OVER	RIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS HIGHEST DELTA V
51. Front O	verride/Underride (this Vehicle)	
	verride/Underride (this Vehicle)	58. Basis for Total (Resultant) Delta V
imp	override/underride, or not an end-to-end pact between two CDS applicable vehicles, I no medium/heavy truck or bus underride	(00) No vehicle inspection
(Between (1) 1st (2) 2nd		Delta V Calculated (01) Reconstruction program-damage only routine (02) Reconstruction program-damage and trajectory routine (03) Missing vehicle algorithm
(Between (4) 1st (5) 2nd		Delta V Not Calculated  (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
	dium/heavy truck or bus override (of any ofiguration) known	All vehicles within scope (CDC applicable) of reconstuction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable
HEA	DING ANGLE AT IMPACT FOR HIGHEST DELTA V	reconstruction technique, regardless of adequacy of damage data.
Values:	(000)-(359) Code actual value (996) Non-horizontal impact (997) Noncollision (998) Impact with object (999) Unknown	(05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override (09) Yielding object
_	Angle For This Vehicle	(10) Overlapping damage (11) All vehicle and collision conditions are within
54. Heading	Angle For Other Vehicle	scope of one of the acceptable reconstruction
	RECONSTRUCTION DATA	programs, but there is insufficient data available, (specify):
	towed unit -towed trailing unit	
56. Docume for This (0) No (1) Yes	entation of Trajectory Data Vehicle	(98) Other, (specify):
(For Hig (0) Not tree (1) Not (2) Crac (3) Tilte (4) Tilte (5) Upro (6) Sepa (7) Pole	llision Condition of Tree or Pole hest Delta V) collision (for highest delta V) with or pole damaged cked/sheared ed < 45 degrees ed ≥ 45 degrees poted tree arated pole from base replaced er (specify):	
(9) Unk	•	

COMPUTER GENERATED CRASH SEVERITY						
59. Total Delta V	Highest	Highest 63. Impact Speed				
Nearest kmph (highest) Nearest kmph (secondary)		Nearest kmph (highest) Nearest kmph (secondary)				
(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown	Highest	(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown				
60. Longitudinal Component of + Delta V		DELTA V CONFIDENCE LEVEL				
Nearest kmph (highest)  Nearest kmph (secondary)  (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown		64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear				
61. Lateral Component of Delta V +	Highest	OTHER SPEED ESTIMATE				
Nearest kmph (highest)		Highest 65. Barrier Equivalent Speed				
Nearest kmph (secondary)  (NOTE:000 means greater than -0.5 km less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown	mph and Highest	Nearest kmph (highest)  Nearest kmph (secondary)  (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above				
62. Energy Absorption	, 0 0	(999) Unknown				
Nearest 100 joules (highest)						
Nearest 100 joules (secondar (NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown						

ESTIMATED DELTA V	INSPECTION TYPE				
66. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded  Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph	67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify):  (3) Complete inspection				
(4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph	DELTA V EVENT NUMBER				
Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown	68. Delta V Event Number  Code the accident event sequence number that resulted in the Delta V that has been coded above for this vehicle (99) Unknown				

\*\*\* IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), \*\*\*

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

\*\*\* IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE \*\*\*

THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

# **EXTERIOR VEHICLE FORM**

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Administration	1							CRAS	SHWORTH	INESS DAT	A SYSTE
Primary Sampling Unit Number			;	3. Vehicle Number							
2. Case	Number - Stratum	<u>M-</u>	95-5B-40	76							
			VEHICLE	IDENT	IFICAT	rion					
VIN	GDK6	P / B	3 F	Υį	-XX	- <del>- K</del> -	K- X		Model	Year _	35
1	ake (specify):						l (specify	1: Bly	EBIR	o Schoo	KBUS.
			L	OCAT	OR						
	e end of the damage warmaged axle for side		to the vehicle	e's dam	aged cei	nter poir	nt or bun	nper co	rner for e	end impa	icts
Specific Imp	act No. Location	of Direct Dama	age		Locatio	n of Field	L		Location	of Max Cr	ush
\$1	BEGINS 4800	m From Fr	PONTANE	BEGINS	3350	cm Fear	TRINT A	RLE	C		· /
ØZ	UE	$\overline{\lambda}$		(	JE (	N		RK	Bump	ZER COR	LNER.
		CRU	SH PROF	ILE IN	CENTI	METER	RS				
	ldentify the plane at e etc.) and label adjust				taken (e	e.g., at b	umper,	above b	umper, a	at sill, ab	ove sill,
	Measure C1 to C6 fro	om driver to	passenger s	side in fi	ront or re	ear impa	cts and	rear to	front in s	side impa	acts.
	Free space value is de individual C locations										
	taper, etc. Record th		•					•	·		
	Use as many lines/co	lumns as ne Direct D		describe	each da	mage p	rofile.	<u> </u>	T	T	Τ
Specific Impact Number	Plane of Impact C-Measurements	Width (CDC)	Max Crush	Field L	C,	C <sub>2</sub>	C3	C₄	C <sub>5</sub>	C <sub>6</sub>	± D
\$1	LEFT SIDE		35.6	769	30.6	27.9	20.3	24.1	25.4	35.6	
	(RZOW WINDOWS)			, , ,	c <sub>y</sub>	Cg	c' <sub>9</sub>	/O	c <sub>11</sub>	c 12	
							30.5				
*NOTE	12 "c" MEAS.	TAXEN	@ SZA	77	THRO	NGH	12 P	OS 11/	WS (2	510	سيّع
$\phi_{\mathcal{Z}}$	REARBUMAER	96	147								
		***									
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· · · · · · · · · · · · · · · · · · ·						ļ			<u> </u>		<u></u>
									-		
	7										

# ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	$277.\cancel{\phi}$ inches	x 2.54 =	<u> 744</u> cm
Overall Length	<u> 433.\$</u> inches	x 2.54 =	/ <i>Lpb</i> cm
Maximum Width	\$ 96.5 inches	x 2.54 =	<u> 244</u> cm
Curb Weight	<i>N/I</i> } pounds	x .4536 =	, <i></i> //} kg
Average Track	inches	x 2.54 =	cm
Front Overhang	$\cancel{\phi} \cancel{3} \cancel{\phi} \cancel{b}$ inches	x 2.54 =	<u>Ø 7 6</u> cm
Rear Overhang	126.0 inches	x 2.54 =	Ø 5 6 cm
Undeformed End Width	<i>\_\]</i> inches	x 2.54 =	_ <i>N/1</i> 9_cm
Engine Size: cyl./displ.	6000 cc	x .001 =	<u>6.¢</u> ∟
	366 CID	x .0164 =	<i>(a.b</i> ∟

# MISSING DATA

THE FOLLOWING DATA ARE NOT INCLUDED IN THIS CASE:

PAGE NUMBER(S)

 a		

BEST AVAILABLE

Page 3N

JAMAGE DESCRIPTION	TYPE OF TRANSMISSION	WHEEL STEER ANGLES
Tire—Wheel Damage	ManualAutomatic	(For locked front wheels or displaced
Rotation physically restricted	Front Track: 20/.00	rear axies only)
RF_2 For rear wheels LF_2 circle axle(s)	Cab Width: 23/.00	RF ± ° For rear wheels  LF ± or circle axle(s)
RR 2 2 3	ļ	RR ±° 2 3
LR	Curb Weight:	LR #°
(1) Yes, (2) No, (8) NA, (9) Unk.	Overall Length:	Within ± 5 degrees
Vehicle No.:	displ	
	RONT FRONT ENTIONAL FORWARD CONTE	ROL O O
Left Side	CLEMIN 11.75	14 8 100 8 56 61 45 157 5-105
ALL 2013	0 13.0 0 TONNOPE	
25.7 25.7 24.20 20.27 20.27	1 9.5 -	59
30,	9 11 = 1 14 CUSH	2 %
7 6	-ARAN NO TE	
	READ FORTION HAVINGER ONCE ON MATER	RGAR DE BUS DINCO
w = 0000	BUCKIED AFTER ACC.	204
CONVEN	AR REAR	

Note: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewall, etc.)

If pulling trailer sketch time or trailer and diamage recolled no remissions.

Alternative of a simple of the sketch time of trailer and diamage of the remission of the property of the sketch of the

CDC WORKSHEET								
CODES FOR OBJECT CONTACTED								
(01-30)	- Vehicle Num	nber		(57)	Fence			
				Wall				
Noncoll	ision			(59)	Building			
		llover (excludes	end-over-end			culvert		
	Rollover-end-				Ground			
	Fire or explosion	on			Fire hyd	rant		
	Jackknife		L.1.		Curb			
(35)	Other intraunit	damage (specif	y):	(64)		xed object (s	enecify):	
(36) (38)	Noncollision in					n fixed object		<del></del>
•		details unknow				_		
(39)	Noncollision —	details unknow	'N			onfixed Objec jer car, light		or other
Collision	n With Fixed Ob	iect		(70)		not in-transp		n other
	Tree (≤ 10 cm			(71)		/heavy truck		n-transport
	Tree (> 10 cm				Pedestri		0. 505	c. d.loport
	Shrubbery or b	•			Cyclist			
	Embankment					onmotorist o	r conveyance	е
(45)	Breakaway pol	e or post (any d	iameter)	(75)	Vehicle	occupant		<del></del>
					Animal			
	akaway Pole or		_		Train			
		10 cm in diame				Trailer, disconnected in transport		
(51)	diameter)	• 10 cm but ≤ 3	U cm in			Object fell from vehicle in-transport Other nonfixed object (specify):		
<i>(</i> 52)	-	→ 30 cm in diam	eterl	(00)	Other no	Other hornixed object (specify).		
		iameter unknow		(89)	Unknow	Unknown nonfixed object		
	Concrete traffic			(98)	Other ev	ent (specify	):	
	Other traffic ba	arrier (includes g		(99)	Unknow	Unknown event or object		
	(ороси, у.		······································		·····			
		DEFORMA	TION CLASS	SIFICATION BY				
Accident		(1) (2)			(4) Specific	(5) Specific	(6)	
Event		Direction	Incremental	(3) L	ongitudinal	Vertical or	Type of	(7)
Sequence		of Force	Value of		or Lateral	Lateral	Damage	Deformation
Number	Contacted	(degrees)	Shift	Location	Location	Location	Distribution	Extent
	· · · · · · · · · · · · · · · · · · ·							
			<del></del>					
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					<del></del>			
	. <del>**</del>							

		COLLISION	DEFORMA	TION CLAS	SIFICATIO	N	
HIGHEST C	DELTA "V"						
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4	5	6	7	8	9	10	11
Second Hig	ghest Delta "V"				,		
12	13	14	15	<b>16</b>	17	18	19
		CRUS	H PROFILE	IN CENTIM	ETERS		
			mage described below. (ALL M				
HIGHEST D	ELTA "V"	/					
20. L	21. 			C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub> +	22. ±D
Second Hig	24. C <sub>1</sub>				C <sub>5</sub>		25. ±D
							<del></del>
(Coded impact im	rmed End Width when highest sis an end plane Code to the nea 250 centimeters No highest sever Unknown  Damage Width hest severity im Code to the nea 250 centimeters	everity impact.) irest centimeter s or more rity end plane i pact) irest centimeter	mpact	(650) (999) — — — — — — — — — — — — — — — — — — —	Code to the nea centimeter 650 centimeter Unknown	s or more  2.54 =  Width	centimeters

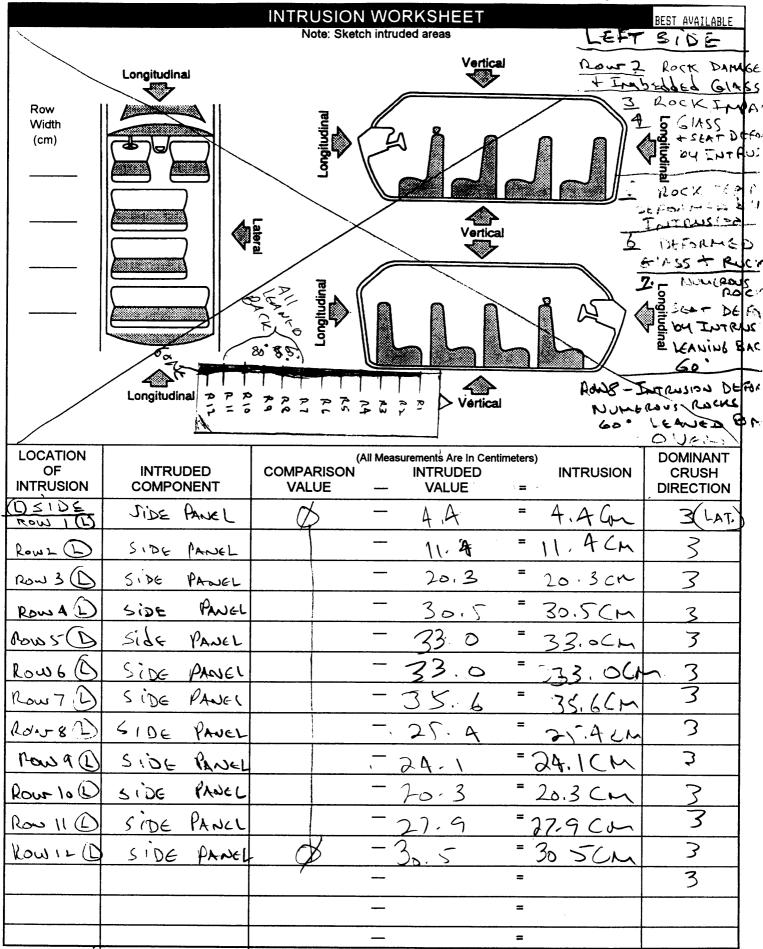
			FUEL SYSTEM
30.	Are CDCs Documented but Not Coded on The Automated File?  (0) No (1) Yes	\$	35. Location of Fuel Tank-1 Filler Cap  36. Location of Fuel Tank-2 Filler Cap  (0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle) on left side plane
31.	Researcher's Assessment of Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown		<ul> <li>(3) Aft of center of the rear wheels (rear axle) on right side plane</li> <li>(4) Forward of center of the rear wheels (rear axle) on left side plane</li> <li>(5) Forward of center of the rear wheels (rear axle) on right side plane</li> <li>(6) Over the center of the rear wheels (rear axle) on left side plane</li> </ul>
32.	Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle?  (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): RCUE BIRD  SCHOOL BUS CHOUSE  (Include photograph of CERTIFICATION		(7) Over the center of the rear wheels (rear axle) on right side plane (8) Other (specify): (9) Unknown  37. Type of Fuel Tank-1  38. Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle)
	PLACARD in case report) (9) Unknown if vehicle is modified  FIRE OCCURRENCE		(1) Metallic (2) Non-metallic (9) Unknown  39. Location of Fuel Tank-1
33.	Fire Occurrence (0) No fire  Yes, fire occurred (1) Minor (2) Major (9) Unknown	4	40. Location of Fuel Tank-2 (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered
34.	Origin of Fire  (0) No fire  (1) Vehicle exterior (front, side, back, top)  (2) Exhaust system  (3) Fuel tank (and other fuel retention system parts)  (4) Engine compartment  (5) Cargo/trunk compartment  (6) Instrument panel  (7) Passenger compartment area  (8) Other location (specify):		(5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify):
			(9) Unknown

		<del></del>	γ	<del></del>	
43.	Leakage Location of Fuel System-1	1		his Vehicle Equipped With More Than Fuel Tanks?	
44.	Leakage Location of Fuel System-2		(0)		
	(0) No fuel tank				
	(1) No fuel leakage			- More Than Two Tanks	
			(1)	Yes no damage to any tank or filler	
	Primary Area Of Leakage		٠	cap and no fuel system leakage	
	(2) Tank		(2)	Yes no damage to any tank or filler	
	(3) Filler neck			cap but there is fuel system leakage	
	(4) Cap		Ì	(specify leakage location):	
	(5) Lines/pump/filter				
	(6) Vent/emission recovery		(3)	Yes damage to an additional tank or	
	(8) Other (specify):			filler cap and there is fuel system leakage	
	(9) Unknown			(specify the following):	
			[	Type of tank	
		d 1		Tank location	
45.	Fuel Type-1	<u> </u>		Filler cap location	
	•		İ	lank damage	
46.	Fuel Type-2	<i>q</i> /		Location of leakage	
		' ' i		Type of fuelUnknown if more than two tanks	
	Single Fuel Type		(9)	Unknown if more than two tanks	
	(00) No fuel tank				
	(01) Gasoline				
	(02) Diesel				
	(03) CNG (Compressed Natural Gas)			COMMENTS	
	(04) LPG (Liquid Petroleum Gas) also				
	known as Propane				
	(05) LNG (Liquid Natural Gas)				
	(06) Methanol (M100 or M85)				
	(07) Ethanol (E100 or E85)				
	(08) Other (Hydrogen or others) (specify):	_			
	Electric Powered or Electric/Solar				
	Powered Vehicles				
	(10) Lead Acid Battery				
	(11) Nickel-Iron Battery	1			
	(12) Nickel-Cadmium Battery	1			
	(13) Sodium Metal Chloride Battery				
	(14) Sodium Sulfur Battery				
	(18) Other (Specify):				
	(98) Other Hybrid (specify):		-		
	(99) Unknown fuel type	-			
		l			
		<b></b>			

\*\*\* STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED \*\*\*

(GV10=0)

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.



# MISSING **DATA**

THE FOLLOWING DATA ARE NOT INCLUDED IN THIS CASE:

PAGE NUMBER(S)

7-11
-

	onal Accident Sampling System-C	>1430WORINIO	ess Data S	ystem: interi	or venicle F	orm	-1122112	Page
		EJECTION	/ENTRA	PMENT D	ATA			
Co. vet	mplete the following if the research nicle. Code the appropriate data on	her has any in	dication tha	nt an occupan	t was either o	ejected from o	or entrappe	ed in t
Des	ECTION No [ ] Yes 📈 scribe indications of ejection and bo	ody parts invol	ved in partia	al ejection(s):				
	PART OF F AWAY AUD SEPERATED FO LEFT REAR S	LOOF	OF.	SCHOOL	. Bus	LAW	RIPPI	Ē
	EUA PAWA	ENTIF	se E	BACK	secti	00 05	- BU.	2
	SEPERATED FT	noh c	: HASSI	SAT	IM	DACT W	, SCHI	B
	rett bens ?	EAT ~ (	for 1	r (ry?	T SEAT	LAW [	RI	<u>ي</u> ا
	Completely o	UT OF	865	<u> </u>	CUPAN			
	Occupant Number	127		T				7
	Ejection	/						-
	(Note on Vehicle Interior Sketch) Ejection Area	14						
	Ejection Medium	5						1
	Medium Status	3						-
(2)	) Complete ejection ) Partial ejection	(7) Roof (8) Other pickup	area (e.g., t	back of cify):	(8) Ot	egral structure her medium (s		
(9)	Ejection, Unknown degree Unknown	(9) Unknown		(9) Unknown  Medium Status (Immediately Prior			rior	
(1) (2) (3) (4) (5)	tion Area Windshield Left front Right front Left rear Right rear Right rear	t front (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) ht rear			to Impac (1) Op (2) Clo	et) een osed egral structure	-	
	RAPMENT No [ ] Yes [ ] ribe entrapment mechanism:							

ENTRAPMENT No [ ] Yes [ ]  Describe entrapment mechanism:		
Component(s):		
(Note in vehicle'interior diagram)	*	

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM

CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number	12. Speed Limit <u>Ø 6 4</u>
2. Case Number - Stratum DS/-95-SB-\$20	(000) No statutory limit  Code posted or statutory speed limit in kmph
3. Vehicle Number $\phi$ $\bar{Z}$	(999) Unknown
VEHICLE IDENTIFICATION	$40 \text{ mph } \times 1.6093 = 40 4 \text{ kmph}$
4. Vehicle Model Year Code the last two digits of the model year (99) Unknown	13. Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present (7) Not reported (8) No driver present
5. Vehicle Make (specify): 855	(9) Unknown
Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown  6. Vehicle Model (specify):  78468664	14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown
Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	(98) No driver present (99) Unknown Source:
7. Body Type Note: Applicable codes may be found on the back of this page.	15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present (1) Yes other drug(s) present
8. Vehicle Identification Number	(7) Not reported (8) No driver present
ANKCLZ ANG PHM LA LA LA LA LA LA LA LA LA LA LA LA LA	(9) Unknown  16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify):
9. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus	(3) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given
(4) Military (5) Police	17. Driver's Zip Code
(6) Ambulance (7) Fire truck or car	(00001) Driver not a resident of U.S. or territories
(8) Other (specify):(9) Unknown	Code actual 5-digit zip code (99998) No driver present
OFFICIAL RECORDS	(99999) Unknown
10. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic)
11. Police Reported Travel Speed Code to the nearest kmph (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown	(4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify):  (8) No driver present
31 mplf x 1.6093 = $45$ kmph	(9) Unknown

## **CODES FOR BODY TYPE**

## CDS APPLICABLE VEHICLES

## **Automobiles**

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

#### Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

## Utility Vehicles (≤ 4,536 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

## Van Based Light Trucks (≤ 4,536 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (s 4,536 kgs GVWR)
- (23) Van based motorhome (≤ 4,536 kgs GVWR)
- (24) Van based school bus (< 4,536 kgs GVWR)
- (25) Van based other bus (≤ 4,536 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

# Light Conventional Trucks (Pickup style cab, ≤ 4.536 kas GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)
- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

## Other Light Trucks (≤ 4,536 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

## **OTHER VEHICLES**

## Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

## Medium/Heavy Trucks (> 4,536 kgs GVWR)

- (60) Step van (> 4,536 kgs GVWR)
- (61) Single unit straight truck (4,536 kgs < GVWR ≤ 8,845 kgs)
- (62) Single unit straight truck (8,845 kgs < GVWR ≤ 11,793 kgs)
- (63) Single unit straight truck (> 11,793 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer(68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

# Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):
- (89) Unknown motored cycle type

## Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	PRECRASH ENVIRONMENTAL DATA			,
	_	25.	Roadway Surface Condition	+
19.	Relation To Interchange Or Junction	ì	(1) Dry	•
	(0) Non-interchange area and non-junction		(2) Wet (3) Snow or slush	
	(1) Interchange area related		(4) Ice	
		Ì	(5) Sand, dirt, or oil	
	Non-Interchange junctions		(8) Other (specify):	
	(2) Intersection related		(9) Unknown	
	<ul><li>(3) Driveway, alley access related</li><li>(4) Other junction (specify)</li></ul>	1		
	(4) Other junction (specify)	26	Light Conditions	1
	(5) Unknown type of junction	20.	(1) Daylight	
	(e) e <sub>i</sub>		(2) Dark	
	(9) Unknown		(3) Dark, but lighted	
			(4) Dawn	
	$\mathcal{A}$	l	(5) Dusk	
20.	Trafficway Flow		(9) Unknown	
	(0) Not physically divided (two way traffic)			
	(1) Divided trafficway-median strip without positive			de
	barrier (2) Divided trafficway-median strip with positive	27.	Atmospheric Conditions	$\varphi$
	barrier		(O) No adverse atmospheric-related driving	′
	(3) One way traffic		conditions (1) Rain	
	(9) Unknown		(2) Sleet/hail	
	107 01111101111		(3) Snow	
0.4	7		(4) Fog	
21.	Number Of Travel Lanes		(5) Rain and fog	
	(1) One (2) Two		(6) Sleet and fog	
	(3) Three		(7) Other (e.g., smog, smoke, blowing sand or	
	(4) Four		dust, etc.) (specify):	
	(5) Five			
	(6) Six		(9) Unknown	
	(7) Seven or more	20	Traffic Control Device	~>
	(9) Unknown	20.	(0) No traffic control(s)	
	,		(1) Traffic control signal (not RR crossing)	ĺ
22.	Roadway Alignment		(1) Training defined digital (not the discounty)	
	(1) Straight		Regulatory	
	(2) Curve right		(2) Stop sign	
	(3) Curve left		(3) Yield sign	
	(9) Unknown		(4) School zone sign	
	,		(5) Other regulatory sign (specify):	
23.	Roadway Profile		(6)	
	(1) Level		(6) Warning sign (not RR crossing) (7) Unknown sign	
	(2) Uphill grade (>2%)		(8) Miscellaneous/other controls including RR	
	(3) Hill crest		controls (specify):	
	(4) Downhill grade (>2%)		Controls (Specify).	
	(5) Sag		(9) Unknown	
	(9) Unknown			
	<b>~</b>			$\neg$
24.	Roadway Surface Type	29.	Traffic Control Device Functioning	$\leq$
	(1) Concrete		(O) No traffic control device	
	(2) Bituminous (asphalt)		(1) Traffic control device not functioning	
	(3) Brick or block		(specify):	
	(4) Slag, gravel, or stone (5) Dirt		(2) Traffic control device functioning properly	
	(8) Other (specify):		(9) Unknown	
	(9) Unknawn			
	(T			

	PRECRASH DRIVER RELATED DATA	THIS VEHICLE TRAVELLING
		(10) Over the lane line on left side of travel lane
30.	Driver's Distraction/Inattention To Driving	(11) Over the lane line on right side of travel lane
	(Prior To Recognition Of Critical Event)	(12) Off the edge of the road on the left side
	(00) No driver present	(13) Off the edge of the road on the right side
	(01) Attentive or not distracted (02) Looked but did not see	(14) End departure
	(UZ) Looked but did not see	(15) Turning left at intersection
	Distractions	(16) Turning right at intersection
	(03) By other occupant(s), (specify):	(17) Crossing over (passing through) intersection (18) This vehicle decelerating
		(19) Unknown travel direction
	(04) By moving object in vehicle (specify):	(19) Officiowit davet difection
	(05) While talking or listening to cellular phone (specify	OTHER MOTOR VEHICLE IN LANE
	location and type of phone):	(50) Other vehicle stopped
	location and type of priorie).	(51) Traveling in same direction with lower steady
	(06) While dialing cellular phone (specify location and	speed
	type of phone):	(52) Traveling in same direction while decelerating
	() po or priorio).	(53) Traveling in same direction with higher speed
	(07) While adjusting climate controls	(54) Traveling in opposite direction
	(08) While adjusting radio, cassette, CD (specify):	(55) In crossover
		(56) Backing
	(09) While using other device/controls integral to	(59) Unknown travel direction of other motor vehicle in
	vehicle (specify):	lane
	(10) While using or reaching for device/object brought	lane
	into vehicle (specify):	OTHER MOTOR VEHICLE ENCROACHING INTO
	(11) Sleepy or fell asleep	LANE
	(12) Distracted by outside person, object, or event	(60) From adjacent lane (same direction)—over left
	(specify):	lane line
	(13) Eating or drinking	(61) From adjacent lane (same direction)—over right
	(14) Smoking related	lane line
	(97) Distracted/inattentive, details unknown	
	(98) Other, distraction (specify):	(62) From opposite direction—over left lane line
	(00) Halmana	(63) From opposite direction—over right lane line
	(99) Unknown	(64) From parking lane
	Pre-Event Movement (Prior to $\mathcal{Y}$	(65) From crossing street, turning into same direction
	Recognition of Critical Event)	(66) From crossing street, across path
	(00) No driver present	(67) From crossing street, turning into opposite
	(01) Going straight	direction (68) From experiments at intended not not known
	(02) Decelerating in traffic lane	(68) From crossing street, intended path not known
	(03) Accelerating in traffic lane	(70) From driveway, turning into same direction
	(04) Starting in traffic lane	(71) From driveway, across path
	(05) Stopped in traffic lane (06) Passing or overtaking another vehicle	(72) From driveway, turning into opposite direction (73) From driveway, intended path not known
	(07) Disabled or parked in travel lane	
	(08) Leaving a parking position	(74) From entrance to limited access highway
	(09) Entering a parking position	(78) Encroachment by other vehicle—details unknown
	(10) Turning right	DEDECTRIAN DEDALOVOLICT OR OTHER
	(11) Turning left	PEDESTRIAN, PEDALCYCLIST, OR OTHER
	(12) Making a U-turn	NONMOTORIST
	(13) Backing up (other than for parking position)	(80) Pedestrian in roadway
	(14) Negotiating a curve	(81) Pedestrian approaching roadway
	(15) Changing lanes	(82) Pedestrian—unknown location
	(16) Merging	(83) Pedalcyclist or other nonmotorist in roadway
	(17) Successful avoidance maneuver to a previous	(amanif de
	critical event	(specify):(84) Pedalcyclist or other nonmotorist approaching
	(97) Other (specify):	
	(99) Unknown	roadway, (specify):(85) Pedalcyclist or other nonmotorist—unknown
<b>32</b> .	Critical Precrash Event	
	THIS VEHICLE LOSS OF CONTROL DUE TO:	location
	(01) Blow out or flat tire	(specify):
	(02) Stalled engine	OD ITOT OD ANIMAL
	(03) Disabling vehicle failure (e.g., wheel fell off)	OBJECT OR ANIMAL
	(specify):	(87) Animal in roadway
	(04) Non-disabling vehicle problem (e.g., hood flew up)	(88) Animal approaching roadway
,	(specify):	(89) Animal—unknown location
	(05) Poor road conditions (puddle, pot hole, ice, etc.)	(90) Object in roadway
	(specify):	(91) Object approaching roadway
(	(06) Traveling too fast for conditions	(92) Object—unknown location
	(08) Other cause of control loss (specify):	(98) Other critical precrash event (specify):
	,	(00)
(	(09) Unknown cause of control loss	(99) Unknown

Category	Configur- ation	ACCIDENT TYPES (Includes intent)		
<u>.</u>	A. Right Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION WITH VEH. PED. ANIM.	04 SPECIFICS OTHER	05 SPECIFICS UNKNOWN
l Single driver	B. Left Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION ROAD TRACTION LOSS WITH VEH. PED. ANIM.	09 SPECIFICS OTHER	10 SPECIFICS UNKNOWN
	C. Forward Impact	PARKED VEHICLE STA. OBJECT PEDESTRIAN/ ANIMAL END DEPARTURE	15 SPECIFICS OTHER	16 SPECIFICS UNKNOWN
icway ction	D. Rear-End	20 22 24 26 28 30 30 29 STOPPED 21,22,23 SLOWER 25,26,27 DECEL 29,30,31	EACH • 32)  SPECIFICS  OTHER	(EACH • 33)  SPECIFICS UNKNOWN
II Same Trafficway Same Direction	E. Forward Impact	34 35 36 37 38 39 40 CONTROL/ CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEHICLE WITH OBJECT	SPECIFICS OTHER	(EACH • 43) SPECIFICS UNKNOWN
	F. Sideswipe/ Angle	46 45 45 47 (EACH• 48) SPECIFICS OTHER	(EAC	H• 49) JNKNOWN
ay ction	G. Head-On	50 51 (EACH • 52) (EACH • 53) SPECIFICS OTHER SPECIFICS UNKNOWN		
Same Trafficway Opposite Direction	H. Forward Impact	54 55 56 57 58 59 60 CONTROL/ CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEHICLE WITH OBJECT	(EACH • 6: 51 SPECIFICS OTHER	2) (EACH • 63)  SPECIFICS UNKNOWN
≡ [	I. Sideswipe/ Angle	(EACH • 66) (EACH • 67)  SPECIFICS OTHER SPECIFICS UNKNOWN		
N Change Trafficway Vehicle Turing	J. Turn Across Path	68 71 70 73 72 INITIAL OPPOSITE DIRECTIONS INITIAL SAME DIRECTION	(EACH • 74 SPECIFICS OTHER	SPECIFICS UNKNOWN
N Change Vehicle	K. Turn Into Path	77 79 78 80 81 82 TURN INTO SAME DIRECTION TURN INTO OPPOSITE DIRECTION	(EACH • 84 SPECIFICS OTHER	SPECIFICS UNKNOWN
v Intersecting Paths (Vehice Damage)	L. Straight Paths	87 88 89 (EACH • 90) SPECIFICS OTHER	(EACH SPECIFI	I• 91) CS UNKNOWN
VI. Miscel- laneous	M. Backing Etc.	92 93 OTHER VEHICLE OR OBJECT  98 Other Accident To the service of		

	Attempted Avoidance Maneuver (00) No driver present (01) No avoidance maneuver (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right	35. Pre-Impact Location (0) No driver present (1) Stayed in original travel lane (2) Stayed on roadway but left original travel lane (3) Stayed on roadway, not known if left original travel lane (4) Departed roadway (5) Remained off roadway (6) Returned to roadway (7) Entered roadway (9) Unknown
	(10) Accelerating (11) Accelerating and steering left (12) Accelerating and steering right (98) Other action (specify):  (99) Unknown	36. Accident Type (Note: Applicable codes on back of this page)  (00) No impact Code the number of the diagram that best
34.	Pre-Impact Stability  (0) No driver present  (1) Tracking  (2) Skidding longitudinally—rotation less than 30 degrees  (3) Skidding laterally—clockwise rotation  (4) Skidding laterally—counterclockwise rotation  (7) Other vehicle loss-of-control (specify):	describes the accident circumstance (98) Other accident type (specify):  (99) Unknown
	(9) Precrash stability unknown	

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

	OCCUPANT DELATED	T.,	William Corner Mariella
37.	OCCUPANT RELATED  Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown	44.	Vehicle Cargo Weight
38.	Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more (99) Unknown	45.	ROLLOVER DATA Rollover
39.	Number of Occupant Forms Submitted		(00) No rollover (no overturning)
40.	Is this an AOPS Vehicle? (0) No (includes unknown) (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts		Rollover (primarily about the longitudinal axis) 11-16) Code the number of quarter turns (17) Rollover, 17 or more quarter turns (specify): (98) Rolloverend-over-end (i.e., primarily about the lateral axis) (99) Rollover (overturn), details unknown  Rollover Initiation Type
41.	Air Bag(s) Deployment, First Seat Frontal (0) Not equipped or not available (1) No air bags deployed  Single Air Bag Vehicle (2) Driver air bag deployed (3) Driver air bag, unknown if deployed  Multiple Air Bag Vehicle (4) Driver side only deployed (5) Passenger side only deployed (6) Driver and passenger side deployed (7) Driver and passenger side unknown if	47.	(00) No rollover (01) Trip-over (02) Flip-over (03) Turn-over (04) Climb-over (05) Fall-over (06) Bounce-over (07) Collision with another vehicle (08) Other rollover initiation type specify): (98) Rolloverend-over-end (99) Unknown rollover initiation type Location of Rollover Initiation
42.	deployed (8) Air bag(s) deployed, details unknown (9) Unknown  Air Bag(s) Deployment, Other Than First Seat Frontal (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)	48.	(0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (8) Rolloverend-over-end (9) Unknown  Rollover Initiation Object Contacted (Note: Applicable codes on back of page)  Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover
	(5) Unknown if deployed (7) Nondeployed (9) Unknown  Specify type of "other" air bag present:  VEHICLE WEIGHT ITEMS		(1) Wheels/tires (2) Side plane (3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (6) Non-contact rollover forces (specify): (8) Rolloverend-over-end (9) Unknown
43	Vehicle Curb Weight Code weight to nearest 10 kilograms. (045) Less than 454 kilograms (612) 6,124 kilograms or more (999) Unknown Unknown Kgs Source:		Direction of Initial Roll  (0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (8) Rolloverend-over-end (9) Unknown roll direction

# CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00)	No rollover	(57)	Fence
(01-	30) — Vehicle Number	(58)	Wall
•		(59)	Building
Noncol	lision	(60)	Ditch or culvert
(31)	Turn-over — fall-over		Ground
	No rollover impact initiation (end-over-end)	(62)	Fire hydrant
	Jackknife		Curb
(0.,			Bridge
Collisio	n With Fixed Object		Other fixed object (specify):
	Tree (≤ 10 cm in diameter)	,,,,,	
	Tree (> 10 cm in diameter)	(69)	Unknown fixed object
	Shrubbery or bush	,00,	
	Embankment	Collisio	n with Nonfixed Object
,,			Passenger car, light truck, van, or other
(45)	Breakaway pole or post (any diameter)	(, 0,	vehicle not in-transport
( ,	broakarray polo or poor (arry diarriotor)	(71)	Medium/heavy truck or bus not in-transport
Nonbre	akaway Pole or Post		Animal
	Pole or post (≤ 10 cm in diameter)		Train
	Pole or post (> 10 cm but ≤ 30 cm in		Trailer, disconnected in transport
(51)	diameter)		Object fell from vehicle in-transport
1521	Pole or post (> 30 cm in diameter)		Other nonfixed object (specify):
	Pole or post (diameter unknown)	(00)	Other hornixed object (specify).
(33)	role of post fuldificter unknown/	(90)	Unknown nonfixed object
/E.A\	Concrete traffic barrier	(03)	Official formixed object
		(00)	Other quest (specific)
	Impact attenuator	(90)	Other event (specify):
(50)	Other traffic barrier (includes guardrail)	(00)	
	(specify):	(99)	Unknown event or object

ACCIDENT RECONSTRUCTION PROGRAMS HIGHEST DELTA V
THORIEST BEETA V
58. Basis for Total (Resultant) Delta V (highest)  (00) No vehicle inspection
Delta V Calculated (01) Reconstruction program-damage only routine (02) Reconstruction program-damage and trajectory routine (03) Missing vehicle algorithm
Delta V Not Calculated  (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
All vehicles within scope (CDC applicable) of reconstruction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable
reconstruction technique, regardless of adequacy of damage data.
(05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override (09) Yielding object (10) Overlapping damage (11) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available, (specify):
(98) Other, (specify):

	COMPUTER GENERATED CRASH SEVERITY					
59.	Total Delta V	Highest	Highest 63. Impact Speed			
	Nearest kmph (highest) Nearest kmph (secondary)		Nearest kmph (highest)  Nearest kmph (secondary)			
(: (:	(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown  Longitudinal Component of +	Highest	(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown			
<b>.</b>	Delta V		DELTA V CONFIDENCE LEVEL			
	Nearest kmph (highest)  Nearest kmph (secondary)  (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown	U:ahaa	64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable			
61.	Lateral Component of Delta V +	Highest	OTHER SPEED ESTIMATE			
	Nearest kmph (highest)		Highest 65. Barrier Equivalent Speed			
١	Nearest kmph (secondary)  (NOTE:000 means greater than -0.5 kmless than +0.5 kmph)  ±160) ±159.5 kmph and above999) Unknown	mph and Highest	Nearest kmph (highest)  Nearest kmph (secondary)  (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown			
62.	Energy Absorption	, 0 0	<b>,</b>			
	Nearest 100 joules (highest)	)				
	Nearest 100 joules (seconda (NOTE: 0000 means less than 50 joules (9997) 999,650 joules or more (9999) Unknown	_				
	<b>₹</b>					

ESTIMATED DELTA V	INSPECTION TYPE
66. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded  Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph	67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify):  (3) Complete inspection  DELTA V EVENT NUMBER
Other estimates of damage severity  (6) Minor  (7) Moderate  (8) Severe  (9) Unknown	68. Delta V Event Number  Code the accident event sequence number that resulted in the Delta V that has been coded above for this vehicle (99) Unknown

\*\*\* IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), \*\*\*

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

\*\*\* IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE \*\*\*

THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

## **EXTERIOR VEHICLE FORM**

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Administration	1		· · · · · · · · · · · · · · · · · · ·					CRAS	HWORTH	INESS DAT	A SYSTE
1. Prima	ry Sampling Unit Nur	nber		3	3. Vehic	le Numb	er			_9	<u>8</u> 2
2. Case	Number - Stratum	DS/	-95-SB-9	Sale							
			VEHICLE	IDENT	IFICAT	ION					
B .	NKCLÓ			· ·		_				Year _	
Vehicle M	ake (specify):	i wor	<i>.TH</i>		Vehic	le Model	(specify	i): <u>Jes</u>	ICK	6 X Y	
			L	OCAT	)R						
	e end of the damage ware emaged axle for side		to the vehicl	le's dama	aged cer	nter poin	t or bun	nper cor	ner for e	end impa	cts
Specific Imp	act No. Location	of Direct Dama	age		Locatio	n of Field	L		Location	of Max Cr	ush
\$1	@FRONT	Bumpa	, r					Œ	FRO	NT BU	MAGR
		<del></del>			<del></del>						
		CRU	SH PROF	II F IN	CENTI	METER	S				
NOTES:	Identify the plane at							above b	umper, a	at sill, ab	ove sill
	etc.) and label adjust				·		•		•	·	
	Measure C1 to C6 fro	om driver to	passenger	side in fr	ont or re	ear impa	cts and	rear to 1	front in	side impa	acts.
	Free space value is d										
	individual C locations taper, etc. Record th							taper, s	ide prot	rusion, s	iae
	Use as many lines/co	lumns as ne	ecessary to	describe	each da	mage pr	ofile.				
Specific			Damage	7							
Impact Number	Plane of Impact C-Measurements	Width (CDC)	Max Crush	Field L	C,	C <sub>2</sub>	C₃	C₄	C <sub>5</sub>	C <sub>6</sub>	±D
0/	FEONT BUMAZR		51.4								
		11/6	FT FR	DAT E	KLE	WAS	DISI	PLAC	=0.	30.0	cm
		RE	BRWE	RO"							

# ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	<del></del>	inches	x 2.54	=	cm
Overall Length	<u> </u>	inches	x 2.54	=	cm
Maximum Width	<u> </u>	inches	x 2.54	=	cm
Curb Weight		pounds	x .4536	=	, kg
Average Track	·	inches	x 2.54	=	cm
Front Overhang		inches	x 2.54	=	cm
Rear Overhang		inches	x 2.54	=	cm
Undeformed End Width		inches	x 2.54	=	cm
Engine Size: cyl./displ.		СС	x .001	=	L
	·	CID	x .0164	=	L

	VEHICLE DAMAGE SKETCH	peo: Mantchold . age 2
TIRE—WHEEL DAMAGE  a. Rotation physically b. Tire restricted deflated  RF 2 RF 2 LF / RR 2 LR 2 LR 2 LR 2 (1) Yes (2) No (8) NA (9) Unk.	ORIGINAL SPECIFICATIONS  Wheelbase cm Overall Length cm Maximum Width cm Curb Weight kg Average Track cm	WHEEL STEER ANGLES (For locked front wheels of displaced rear axles only)  RF ±
TYPE OF TRANSMISSION  Manual □ Automatic  END SHIFT ≥ 10 CM □ Yes □ No	Rear Overhang cm Undeformed End Width cm Engine Size: cyl./displ.	□ FWD □ RWD □ 4WD  Approximate Cargo Weightkg
226  Nockie  See See See See See See See See See S	Original Bumper height  POST-CRASH  Bumper corner  Stringline  Stringline  Stringline	32 32 38607 759 788 00 01
reconstructing the accident (e.g., grass in received on the back of this page.	ect damage and single hatch induced damage on all views. Annota tire bead, direction of striations, scuff on sidewalls, etc.). If pulling to such as component removal by torching, prying, or hydraulic she	trailer, sketch type of trailer and damage

	CDC WORKSHEET								
	CODES FOR OBJECT CONTACTED								
(01-30)	- Vehicle Nur	mber		(57	) Fence				
				•	) Wall				
Noncoll	ision			(59	) Building				
		Overturn - rollover (excludes end-over-e			) Ditch or	culvert			
	Rollover-end				Ground				
	Fire or explosi	on			) Fire hyd	rant			
	Jackknife	4 daman /aman:			Curb				
(35)	Other Intrauni	t damage (specif	y):	(64) (68)	Bridge	and object to	maaiful.		
1361	Noncollision in	oium.	<del></del>	(00)	Othern	ked object (s	specify):		
	Other noncolli			(69)	Unknow	n fixed obje	ct	<del></del>	
(39)	Noncollision -	- details unknow	'n	Collisio	on with No	nfixed Obje	ct		
				(70)			truck, van, c	or other	
	With Fixed O					not in-transp			
	Tree (≤ 10 cm						or bus not i	n-transport	
	Tree (> 10 cr				Pedestri				
	Shrubbery or I	bush			Cyclist			_	
(44)	Embankment			(74)	Other no	onmotorist o	r conveyance	e	
(45)	Breakaway po	le or post (any d	iameter)	(75)	Vehicle	occupant			
					Animal				
	kaway Pole or				Train				
		10 cm in diame				Trailer, disconnected in transport			
(51)		> 10 cm but ≤ 3	0 cm in			Object fell from vehicle in-transport Other nonfixed object (specify):			
/F2\	diameter)	> 30 cm in diam	-41	(88)	Other no	intixea objec	ct (specity):		
		liameter unknow		(89)	Unknow	n nonfixed o	biect	<del></del>	
	•		•				٠		
	Concrete traff Impact attenu			(98)	Other ev	ent (specify	'):		
	(56) Other traffic barrier (includes guardrail) (specify):			(99)	Unknow	n event or o	bject		
		DEFORMA	TION CLASS	SIFICATION BY		JMBER			
Accident		(1) (2)			(4) Specific	(5) Specific	(6)		
Event		Direction	Incremental	(3) L	ongitudinal	Vertical or	(6) Type of	(7)	
Sequence	Object	of Force	Value of	Deformation	or Lateral	Lateral	Damage	Deformation	
Number	Contacted	(degrees)	Shift	Location	Location	Location	Distribution	Extent	
	-								
							<del></del>		
						<del></del>			
			<del></del>		<del></del>	<del></del>			
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			/_		*				
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				<del></del>					
	<del></del>			<del></del>	<del></del>		<del></del>	<del></del>	

		COLLISION	DEFORMA	TION CLAS	SSIFICATIO	N	i age
HIGHEST	DELTA "V"						
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4	5	6	7	8	9	10	11
Second Hi	ighest Delta "V"						
12	13	14	15	16	17	18	19
		CRUS	H PROFILE	IN CENTIV	TETERS		
		ofile for the dar	mage described below. (ALL M	in the CDC(s)	above should b		
HIGHEST	DELTA "V"						
20. L	21. 			C		C <sub>e</sub> +	22. ±D
Second Hi 23. L	ghest Delta "V"		_C <sub>3</sub>		C <sub>5</sub>	C <sub>6</sub> +	25. ±D
(Coded impact (250) (998) (999) 27. Direct (For high (250)	ormed End Width I when highest so is an end plane Code to the nea 250 centimeters No highest seve Unknown  Damage Width ghest severity im Code to the nea 250 centimeters Unknown	everity impact.) irest centimeter s or more irity end plane in pact) irest centimeter	mpact	(650) (999) — — 29. Origina —— (185)	al Wheelbase Code to the near centimeter 650 centimeter Unknowninches X al Average Track Code to the nearest centime 185 centimeters Unknowninches X	s or more  2.54 =  Width	centimeters

			FUEL SYSTEM
30.	Are CDCs Documented but Not Coded on The Automated File? (0) No (1) Yes	ф	35. Location of Fuel Tank-1 Filler Cap  36. Location of Fuel Tank-2 Filler Cap  (0) No fuel tank  (1) On back plane  (2) Aft of center of the rear wheels (rear axle) on left side plane
31.	Researcher's Assessment of Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown		<ul> <li>(3) Aft of center of the rear wheels (rear axle) on right side plane</li> <li>(4) Forward of center of the rear wheels (rear axle) on left side plane</li> <li>(5) Forward of center of the rear wheels (rear axle) on right side plane</li> <li>(6) Over the center of the rear wheels (rear axle) on left side plane</li> </ul>
	Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle?  (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): Truck - Dum P  (Include photograph of CERTIFICATION PLACARD in case report)  (9) Unknown if vehicle is modified		(7) Over the center of the rear wheels (rear axle) on right side plane (8) Other (specify): (9) Unknown  37. Type of Fuel Tank-1  38. Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic (9) Unknown
	FIRE OCCURRENCE		39. Location of Fuel Tank-1
34.	Fire Occurrence (0) No fire  Yes, fire occurred (1) Minor (2) Major (9) Unknown  Origin of Fire (0) No fire (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area (8) Other location (specify):	\$	40. Location of Fuel Tank-2 (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered (5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify): (9) Unknown  41. Damage to Fuel Tank-1  42. Damage to Fuel Tank-2 (0) No fuel tank (1) No damage to fuel tank
	(9) Unknown		<ul> <li>(2) Deformed, no seam failure</li> <li>(3) Deformed, with a seam failure</li> <li>(4) Punctured</li> <li>(5) Lacerated (ripped)</li> <li>(6) Abraded (scraped)</li> <li>(7) Filler neck separation from the fuel tank</li> <li>(8) Other damage (specify):</li> <li>(9) Unknown</li> </ul>

	<del></del>	
43. Leakage Location of Fuel System-1	9	47. Is This Vehicle Equipped With More Than
	9	Two Fuel Tanks?
44. Leakage Location of Fuel System-2		(0) No (one or two tanks only)
(0) No fuel tank		
(1) No fuel leakage		Yes - More Than Two Tanks
		(1) Yes no damage to any tank or filler
Primary Area Of Leakage		cap and no fuel system leakage
(2) Tank		(2) Yes no damage to any tank or filler
(3) Filler neck		cap but there is fuel system leakage
(4) Cap		(specify leakage location):
(5) Lines/pump/filter		
(6) Vent/emission recovery		(3) Yes damage to an additional tank or
(8) Other (specify):		filler cap and there is fuel system leakage
(9) Unknown		(specify the following):
		Type of tank
	_	Tools leagtion
45. Fuel Type-1	99	
+o. ruer rype-r		Filler cap location
40 5 17 0	91	Tank damage
46. Fuel Type-2		Location of leakage
		Type of fuel
Single Fuel Type		Type of fuel(9) Unknown if more than two tanks
(00) No fuel tank		
(01) Gasoline		
(02) Diesel		
(03) CNG (Compressed Natural Gas)		COMMENTS
(04) LPG (Liquid Petroleum Gas) also		O SIMILE I TO
known as Propane		
•		
(05) LNG (Liquid Natural Gas)		
(06) Methanol (M100 or M85)		
(07) Ethanol (E100 or E85)		
(08) Other (Hydrogen or others) (specify):		·
****		
Electric Powered or Electric/Solar		
Powered Vehicles		
(10) Lead Acid Battery		
(11) Nickel-Iron Battery		
(12) Nickel-Cadmium Battery		
(13) Sodium Metal Chloride Battery		
(14) Sodium Sulfur Battery		
(18) Other (Specify):		
(98) Other Hybrid (specify):		
***	<del></del>	
(99) Unknown fuel type		
*** 0700. IF THE 000 A		

\*\*\* STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED \*\*\*

(GV10=0)

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

## GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Administration	CRASHWORTHINESS DATA SYST
1. Primary Sampling Unit Number 2. Case Number - Stratum 3. Vehicle Number  2. Case Number	12. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kmph (999) Unknown
VEHICLE IDENTIFICATION  4. Vehicle Model Year Code the last two digits of the model year (99) Unknown  5. Vehicle Make (specify):	mph X 1.6093 = 8 kmph  13. Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present (7) Not reported (8) No driver present (9) Unknown
Applicable codes are found in your NASS Data Collection, Coding and Editing Manual.  (99) Unknown  6. Vehicle Model (specify):  Applicable codes are found in your NASS Data Collection, Coding and Editing Manual.	14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown  Source:
<ul> <li>(999) Unknown</li> <li>7. Body Type     Note: Applicable codes may be found on the back of this page.</li> <li>8. Vehicle Identification Number</li> </ul>	15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present (1) Yes other drug(s) present (7) Not reported (8) No driver present
Left justify; Slash zeros and letter Z (0 and Z)  No VIN—Code all zeros  Unknown—Code all nines	(9) Unknown  16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify):
9. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance (7) Fire truck or car (8) Other (specify): (9) Unknown  OFFICIAL RECORDS	(3) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given  17. Driver's Zip Code (00001) Driver not a resident of U.S. or territories  Code actual 5-digit zip code (99998) No driver present (99999) Unknown
10. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown  11. Police Reported Travel Speed Code to the nearest kmph (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown	18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify):  (8) No driver present (9) Unknown
30 mpf X 1.6093 = $998$ kmph	

## **CODES FOR BODY TYPE**

## CDS APPLICABLE VEHICLES

#### **Automobiles**

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

#### Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

## Utility Vehicles (≤ 4,536 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

## Van Based Light Trucks (≤ 4,536 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,536 kgs GVWR)
- (23) Van based motorhome ( $\leq$  4,536 kgs GVWR)
- (24) Van based school bus (≤ 4,536 kgs GVWR)
- (25) Van based other bus (≤ 4,536 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

## 

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)
- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

### Other Light Trucks (≤ 4,536 kgs GVWR)

- (40) Čab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

## **OTHER VEHICLES**

## Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

## Medium/Heavy Trucks (> 4,536 kgs GVWR)

- (60) Step van (> 4,536 kgs GVWR)
- (61) Single unit straight truck (4,536 kgs < GVWR ≤ 8,845 kgs)
- (62) Single unit straight truck (8,845 kgs < GVWR ≤ 11,793 kgs)
- (63) Single unit straight truck (> 11,793 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

# Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):
- (89) Unknown motored cycle type

## Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	PRECRASH ENVIRONIVIENTAL DATA	25	. Roadway Surface Condition	1
	7	20	(1) Dry	-
19.	Relation To Interchange Or Junction	.	(2) Wet	
	(0) Non-interchange area and non-junction		(3) Snow or slush	
	(1) Interchange area related	i	(4) Ice	
			(5) Sand, dirt, or oil	
	Non-Interchange junctions	-1	(8) Other (specify):	
	(2) Intersection related	- 1	(9) Unknown	
	(3) Driveway, alley access related	ĺ	10, 2,,,,,,	
	(4) Other junction (specify)		*	1
	(5) 11.1	26	. Light Conditions	
	(5) Unknown type of junction	1	(1) Daylight	
	(0) Halvasuus	1	(2) Dark	
	(9) Unknown	ı	(3) Dark, but lighted	
		1	(4) Dawn	
20	T. (6)		(5) Dusk	
20.	Trafficway Flow $\frac{\varphi}{\varphi}$	.	(9) Unknown	
	(0) Not physically divided (two way traffic)			
	(1) Divided trafficway-median strip without positive	07	A	d
	barrier (2) Divided trafficway-median strip with positive	27	. Atmospheric Conditions	<u> </u>
	barrier	- 1	(0) No adverse atmospheric-related driving	
	(3) One way traffic	ĺ	conditions	
	•		(1) Rain	
	(9) Unknown		(2) Sleet/hail	
			(3) Snow	
21.	Number Of Travel Lanes	1	(4) Fog	
	(1) One		(5) Rain and fog	
	(2) Two	İ	(6) Sleet and fog	
	(3) Three		(7) Other (e.g., smog, smoke, blowing sand or	
	(4) Four		dust, etc.) (specify):	
	(5) Five		(O) Helmonia	
	(6) Six	-	(9) Unknown	
	(7) Seven or more	120	. Traffic Control Device	do
	(9) Unknown	20.	(0) No traffic control(s)	<del>///</del>
	1	İ	(1) Traffic control signal (not RR crossing)	
22	Roadway Alignment/_		(1) Trainic control signal (not filt clossing)	
	(1) Straight		Regulatory	
	(2) Curve right	1	(2) Stop sign	
	(3) Curve left	ı	(3) Yield sign	
	(9) Unknown	1	(4) School zone sign	
	(6)	ŀ	(5) Other regulatory sign (specify):	
	1		(o) other regulatory sign (opposity).	
23.	Roadway Profile		(6) Warning sign (not RR crossing)	
	(1) Level	-	(7) Unknown sign	
	(2) Uphill grade (>2%)	1	(8) Miscellaneous/other controls including RR	
	(3) Hill crest	ł	controls (specify):	
	(4) Downhill grade (>2%)	- 1	, , , , , , , , , , , , , , , , , , ,	
	(5) Sag	- 1	(9) Unknown	
	(9) Unknown			
		,		4
24.	Roadway Surface Type	29.	. Traffic Control Device Functioning	9
	(1) Concrete		(0) No traffic control device	<del>,                                     </del>
	(2) Bituminous (asphalt)		(1) Traffic control device not functioning	
	(3) Brick or block		(specify):	
	(4) Slag, gravel, or stone			
	(5) Dirt		(2) Traffic control device functioning properly	
	(8) Other (specify):	1	(9) Unknown	
	(9) Unkngwn			
	((*	1		

	PF	RECRASH DRIVER RELATED DATA		S VEHICLE TRAVELLING  Over the lane line on left side of travel lane
20				Over the lane line on right side of travel lane
30.		er's Distraction/Inattention To Driving		Off the edge of the road on the left side
		r To Recognition Of Critical Event)		Off the edge of the road on the right side
		No driver present Attentive or not distracted		End departure
		Looked but did not see		Turning left at intersection
	(02)		(16)	Turning right at intersection
	(00)	Distractions		Crossing over (passing through) intersection
	(03)	By other occupant(s), (specify):		This vehicle decelerating
	(04)	By moving object in vehicle (specify):		Unknown travel direction
	(04)	by moving object in venicle (specify).	(,	
	(05)	While talking or listening to cellular phone (specify	OTH	IER MOTOR VEHICLE IN LANE
	(55)	location and type of phone):		Other vehicle stopped
				Traveling in same direction with lower steady
	(06)	While dialing cellular phone (specify location and	( ' '	speed
	` '	type of phone):	(52)	Traveling in same direction while decelerating
		·		Traveling in same direction with higher speed
	(07)	While adjusting climate controls		Traveling in opposite direction
	(80)	While adjusting radio, cassette, CD (specify):		In crossover
				Backing
	(09)	While using other device/controls integral to		Unknown travel direction of other motor vehicle in
	(40)	vehicle (specify):	` ′	lane
	(10)	While using or reaching for device/object brought		
	(4.4)	into vehicle (specify):	OTH	IER MOTOR VEHICLE ENCROACHING INTO
		Sleepy or fell asleep	LAN	IE .
	(12)	Distracted by outside person, object, or event (specify):	(60)	From adjacent lane (same direction)—over left
	(13)	Eating or drinking	` ′	lane line
	(14)	Smoking related	(61)	From adjacent lane (same direction)—over right
	(97)	Distracted/inattentive, details unknown	` ′	lane line
		Other, distraction (specify):	(62)	From opposite direction—over left lane line
	(00)	Син., сподавания (ороспу).		From opposite direction—over right lane line
	(99)	Unknown		From parking lane
21		Event Movement (Prior to	(65)	From crossing street, turning into same direction
J1.		egnition of Critical Event)		From crossing street, across path
		No driver present	(67)	From crossing street, turning into opposite
		Going straight	` ′	direction
	(02)	Decelerating in traffic lane	(68)	From crossing street, intended path not known
	(03)	Accelerating in traffic lane		From driveway, turning into same direction
	(04)	Starting in traffic lane	(71)	From driveway, across path
	(05)	Stopped in traffic lane	(72)	From driveway, turning into opposite direction
	(06)	Passing or overtaking another vehicle	(73)	From driveway, intended path not known
	(07)	Disabled or parked in travel lane	(74)	From entrance to limited access highway
	(80)	Leaving a parking position	(78)	Encroachment by other vehicle—details unknown
		Entering a parking position		
		Turning right	PED	ESTRIAN, PEDALCYCLIST, OR OTHER
		Turning left	NON	IMOTORIST
		Making a U-turn		Pedestrian in roadway
	(13)	Backing up (other than for parking position)		Pedestrian approaching roadway
	(14)	Negotiating a curve Changing lanes		Pedestrian—unknown location
		Merging ranes	(83)	Pedalcyclist or other nonmotorist in roadway
		Successful avoidance maneuver to a previous		
	( . , ,	critical event	(specify)	
	(97)	Other (specify):	(84)	Pedalcyclist or other nonmotorist approaching
		Unknown		roadway, (specify):
32	Critic	cal Precrash Event	(85)	Pedalcyclist or other nonmotorist—unknown
JZ.				location
		VEHICLE LOSS OF CONTROL DUE TO:	(specify)	•
		Blow out or flat tire		
		Stalled engine		ECT OR ANIMAL
	(03)	Disabling vehicle failure (e.g., wheel fell off)		Animal in roadway
	(0.4)	(specify): Non-disabling vehicle problem (e.g., hood flew up)	(88)	Animal approaching roadway
	(04)	(specify):		Animal—unknown location
	(05)	Poor road conditions (puddle, pot hole, ice, etc.)		Object in roadway
	(55)	(specify):		Object approaching roadway
	(06)	Traveling too fast for conditions		Object—unknown location
		Other cause of control loss (specify):	(98)	Other critical precrash event (specify):
		<u> </u>	(00)	Linkman
	(09)	Unknown cause of control loss	(99)	Unknown

Category	Configur- ation			
<u>.</u>	A. Right Roadside Departure	DRIVE OFF CONTROL/ TRACTION LOSS WITH VEH. PED. ANIM. OTHER UNKNOWN		
l Single driver	B. Left Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPECIFICS SPECIFICS FROAD TRACTION LOSS WITH VEH. PED. ANIM. OTHER UNKNOWN		
	C. Forward Impact	PARKED VEHICLE STA. OBJECT PEDESTRIAN/ ANIMAL DEPARTURE OTHER UNKNOWN		
icway ction	D. Rear-End	20 22 24 26 25 28 30 (EACH• 32) (EACH• 33)  STOPPED 21,22,23 SLOWER 25,26,27 DECEL 29,30,31 SPECIFICS OTHER UNKNOWN		
ll Same Trafficway Same Direction	E. Forward Impact	34 35 36 37 38 40 40 (EACH • 42) (EACH • 43)  CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEHICLE WITH OBJECT SPECIFICS UNKNOWN		
	F. Sideswipe/ Angle	46 45 45 47 (EACH • 48) (EACH • 49) SPECIFICS OTHER SPECIFICS UNKNOWN		
y tion	G. Head-On	(EACH • 52) (EACH • 53)  LATERAL MOVE SPECIFICS OTHER SPECIFICS UNKNOWN		
Same Trafficway Opposite Direction	H. Forward Impact	54 55 56 57 58 59 60 (EACH • 62) (EACH • 63)  CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEHICLE WITH OBJECT  (EACH • 62) (EACH • 63)  SPECIFICS OTHER UNKNOWN		
≡	I. Sideswipe/ Angle	(EACH • 66) (EACH • 67) SPECIFICS OTHER SPECIFICS UNKNOWN		
N Change Trafficway Vehicle Turing	J. Turn Across Path	68 70 73 72 (EACH • 74) (EACH • 75)  SPECIFICS SPECIFICS OTHER UNKNOWN		
	K. Turn Into Path	77 79  82 (EACH • 84) (EACH • 85)  TURN INTO SAME DIRECTION  83 SPECIFICS OTHER UNKNOWN		
v Intersecting Paths (Vehice Damage)	L. Straight Paths	87 89 (EACH • 90) SPECIFICS OTHER SPECIFICS UNKNOWN		
VI. Miscel- laneous	M. Backing Etc.	92 93 OTHER VEHICLE OR OBJECT  BACKING VEHICLE  98 Other Accident Type 99 Unknown Accident Type 00 No impact		

33. Attempted Avoidance Maneuver (00) No driver present (01) No avoidance maneuver (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right	35. Pre-Impact Location (0) No driver present (1) Stayed in original travel lane (2) Stayed on roadway but left original travel lane (3) Stayed on roadway, not known if left original travel lane (4) Departed roadway (5) Remained off roadway (6) Returned to roadway (7) Entered roadway (9) Unknown
(10) Accelerating (11) Accelerating and steering left (12) Accelerating and steering right (98) Other action (specify):  (99) Unknown	36. Accident Type (Note: Applicable codes on back of this page)  (00) No impact Code the number of the diagram that best
34. Pre-Impact Stability  (0) No driver present  (1) Tracking  (2) Skidding longitudinally—rotation less than 30 degrees  (3) Skidding laterally—clockwise rotation  (4) Skidding laterally—counterclockwise rotation  (7) Other vehicle loss-of-control (specify):  (9) Precrash stability unknown	describes the accident circumstance (98) Other accident type (specify):
STOP HERE IE GVOZ D	OES NOT FOUND 04 40

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

					<u> </u>
	OCCUPANT RELATED	44.	Vehicle	Cargo Weight,	0
37.	Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown		(454) (999)	Code weight to nearest 10 kilograms. Less than 5 kilograms 4,536 kilograms or more Unknownlbs X .4536 =,kgs	
38.	Number of Occupants This Vehicle (00-96) Code actual number of occupants		Source		
	for this vehicle (97) 97 or more			ROLLOVER DATA	
	(99) Unknown	45.	Rollove	rollover (no overturning)	
39.	Number of Occupant Forms Submitted			r (primarily about the longitudinal axis)	
4.0	AIR BAG RELATED	((	01-16) (17)	Code the number of quarter turns Rollover, 17 or more quarter turns	
40.	Is this an AOPS Vehicle? (0) No (includes unknown) (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts		(98) (99)	(specify): Rollover-end-over-end (i.e., primarily about the lateral axis) Rollover (overturn), details unknown	ūt
	(4) VIN determined air bag and automatic (passive) belts	46.	(00) No	r Initiation Type rollover	_
41.	Air Bag(s) Deployment, First Seat Frontal (0) Not equipped or not available		(01) Tri (02) Fli <sub>l</sub> (03) Tu	p-over	
	(1) No air bags deployed		(04) Cli	mb-over	
	Single Air Bag Vehicle (2) Driver air bag deployed		(05) Fal (06) Bo	II-over unce-over	
	(3) Driver air bag deployed  Multiple Air Bag Vehicle			llision with another vehicle her rollover initiation type specify):	
	<ul> <li>(4) Driver side only deployed</li> <li>(5) Passenger side only deployed</li> <li>(6) Driver and passenger side deployed</li> </ul>			lloverend-over-end known rollover initiation type	
	<ul> <li>(7) Driver and passenger side unknown if deployed</li> <li>(8) Air bag(s) deployed, details unknown</li> </ul>	47.	(0) No	n of Rollover Initiation rollover roadway	_
	(9) Unknown		(2) On	shoulder-paved	
42.	Air Bag(s) Deployment, Other Than First		(4) On	shoulder—unpaved roadside or divided trafficway median	
	Seat Frontal (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of			lloverend-over-end known	
	impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown	48.		Initiation Object Contacted pplicable codes on back of page)	
	(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)	49.	Tripping	n on Vehicle Where Initial Principal Force Is Applied	_
	(5) Unknown if deployed			rollover neels/tires	
	(7) Nondeployed (9) Unknown			le plane d plane	
	Specify type of "other" air bag present:		(4) Un	dercarriage her location on vehicle (specify):	
			(6) No	n-contact rollover forces (specify):	
	VEHICLE WEIGHT ITEMS			lloverend-over-end known	
43		50.		n of Initial Roll	
	Code weight to nearest 10 kilograms.		(1) Ro	Il right - primarily about the longitudinal ax	is
	(045) Less than 454 kilograms		(8) Ro	Il left - primarily about the longitudinal axis lloverend-over-end	š
	(612) 6,124 kilograms or more (999) Unknown , lbs X .4536 =, kgs			known roll direction	
	Source:				

## **CODES FOR ROLLOVER INITIATION OBJECT CONTACTED**

(00) No rollover	(57)	Fence
(01-30) — Vehicle Number	(58)	Wall
	(59)	Building
Noncollision	(60)	Ditch or culvert
(31) Turn-over — fall-over	(61)	Ground
(32) No rollover impact initiation (end-over-end)	* : . *	Fire hydrant
(34) Jackknife		Curb
(OT) DUCKNING		Bridge
Collision With Fixed Object		Other fixed object (specify):
(41) Tree (≤ 10 cm in diameter)	(00)	Cition fixed deject (opeony).
(42) Tree (> 10 cm in diameter)	1691	Unknown fixed object
	(03)	Olikilowii lixea object
(43) Shrubbery or bush	Callicia	n with Nonfixed Object
(44) Embankment		
(AE) D. I	(70)	Passenger car, light truck, van, or other
(45) Breakaway pole or post (any diameter)	(74)	vehicle not in-transport
		Medium/heavy truck or bus not in-transport
Nonbreakaway Pole or Post		Animal
(50) Pole or post (≤ 10 cm in diameter)		Train
(51) Pole or post (> 10 cm but ≤ 30 cm in	(78)	Trailer, disconnected in transport
diameter)	(79)	Object fell from vehicle in-transport
(52) Pole or post (> 30 cm in diameter)	(88)	Other nonfixed object (specify):
(53) Pole or post (diameter unknown)		• • • • • • • • • • • • • • • • • • • •
(co, coo or poor (anameters)	(89)	Unknown nonfixed object
(54) Concrete traffic barrier	,,,,,	
(55) Impact attenuator	(98)	Other event (specify):
(56) Other traffic barrier (includes guardrail)	(00)	other event (opeony):
(specify):	(99)	Unknown event or object
(apecity).	(33)	Olikilowii evelit or object

	OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS HIGHEST DELTA V
-	Front Override/Underride (this Vehicle)	58. Basis for Total (Resultant) Delta V
52.	Rear Override/Underride (this Vehicle)  (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles,	(highest) (00) No vehicle inspection
	and no medium/heavy truck or bus underride	
	Override (see specific CDC)  (Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49))  (1) 1st CDC  (2) 2nd CDC  (3) Other not automated CDC (specify):	Delta V Calculated (01) Reconstruction program-damage only routine (02) Reconstruction program-damage and trajectory routine (03) Missing vehicle algorithm
	Underride (see specific CDC) (Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)) (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):	Delta V Not Calculated  (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
	<ul><li>(7) Medium/heavy truck or bus override (of any configuration)</li><li>(9) Unknown</li></ul>	All vehicles within scope (CDC applicable) of reconstuction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable
	HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V	reconstruction technique, regardless of adequacy of damage data.
53.	Values: (000)-(359) Code actual value (996) Non-horizontal impact (997) Noncollision (998) Impact with object (999) Unknown Heading Angle For This Vehicle	(05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override (09) Yielding object (10) Overlapping damage
	Heading Angle For Other Vehicle	(11) All vehicle and collision conditions are within scope of one of the acceptable reconstruction
	RECONSTRUCTION DATA	programs, but there is insufficient data
55.	Towed Trailing Unit  (0) No towed unit (1) Yes—towed trailing unit (9) Unknown	available, (specify):
56.	Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	(98) Other, (specify):
57.	Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted < 45 degrees (4) Tilted ≥ 45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify):	
	(9) Unknown	

COMPUTER GENERATED CRASH SEVERITY				
High 59. Total Delta V	Highest 63. Impact Speed			
Nearest kmph (highest) Nearest kmph (secondary)	Nearest kmph (highest) Nearest kmph (secondary)			
(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown High	(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown			
60. Longitudinal Component of + Delta V	DELTA V CONFIDENCE LEVEL			
Nearest kmph (highest)  Nearest kmph (secondary)  (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown  High  61. Lateral Component of Delta V +	OTHER SPEED ESTIMATE  Highest  65. Barrier Equivalent Speed  Nearest kmph (highest)  Nearest kmph (secondary)  (NOTE: 000 means less than 0.5 kmph)			
Nearest 100 joules (secondary)  (NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown				

	ESTIMATED DELTA V	INSPECTION TYPE
	Estimated Highest Delta V (Researcher Determined)  O) Reconstruction Delta V coded  Estimated Delta V  1) Less than 10 kmph  2) ≥ 10 kmph but < 25 kmph  3) ≥ 25 kmph but < 40 kmph  4) ≥ 40 kmph but < 55 kmph  5) ≥ 55 kmph	67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): (3) Complete inspection  DELTA V EVENT NUIVIBER
(	Other estimates of damage severity  6) Minor  7) Moderate  8) Severe  9) Unknown	68. Delta V Event Number  Code the accident event sequence number that resulted in the Delta V that has been coded above for this vehicle (99) Unknown

\*\*\* IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), \*\*\*

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

\*\*\* IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE \*\*\*

THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

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